U.S. Coast Goord Oceanographic Report

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## OCEANOGRAPHIC REPORT No.31

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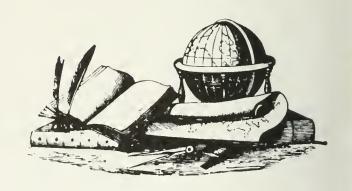
OCEANOGRAPHY OF THE WEDDELL SEA (IWSOE)

February-March 1969



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# UNITED STATES COAST GUARD OCEANOGRAPHIC



UNITED STATES COAST GUARD OCEANOGRAPHIC UNIT

### REPORT No. 31 cg 373-31

OCEANOGRAPHY OF THE WEDDELL SEA IN 1969 (IWSOE)

Gary L. Hufford and Lcdr. James M. Seabrooke





#### Abstract

This report discusses the physical oceanography of the Weddell Sea during the austral summer of 1969. The work was done on the icebreaker USCGC GLACIER (WAGB-4) as part of the second phase of the International Weddell Sea Oceanographic Expedition. Temperature, salinity, and oxygen measurements were obtained from a salinity-temperature-depth recorder and from Nansen bottles.



#### **CONTENTS**

	rage
Oceanography of the Weddell Sea in 1969 (IWSOE)	1
Introduction	1
IWSOE '69 Programs	1
University of Bergen	1
University of Minnesota	1
University of California, Los Angeles	1
U.S. Coast Guard Oceanographic Unit	2
Station Procedure	2
Data Acquisition and Initial Analysis	2
Temperature Data	2
Salinity Determination	3
Oxygen and pH	3
Nutrient Analysis	3
Salinity-Temperature-Depth System	3
Bottom Photography	4
Results of Analysis	4
Bibliography	5
Illustrations	6
Explanation of Oceanographic Station Data	
Table of Oceanographic Data (IWSOE '69)	
Illustrations	
Figure Frontispiece: USCGC GLACIER (WAGB-4)	ii
	6
<ol> <li>Hydrographic Station Locations</li> <li>Vertical Distribution of Temperature (°C) During IWSOE 69</li> </ol>	$=\frac{0}{7}$
3. Vertical Distribution of Salinity (%) During IWSOE 69	7
4. Vertical Distribution of Dissolved Oxygen (ml/L) During IWSOE 69	8
5. Vertical Distribution of Preformed Phosphate (µg-at/1)	
During IWSOE 69	8
6. Vertical Distribution of Preformed Nitrate (μg-at/1) During	
IWSOE 69	9
TABLE	
I. Summary of the Data Collected at each Station	3
II. Mean Characteristics of Water Masses Present in Weddell Sea	
in 1969	4
III. Table of Oceanographic Data (IWSOE 69)	10



#### OCEANOGRAPHY OF THE WEDDELL SEA (1969—IWSOE)

#### Introduction

Deacon (1963) indicated that the Weddell Sea is the largest source of Antarctic Bottom Water  $(-0.4^{\circ} \text{ C., } 34.66\%)$ . The generally accepted theory states that it is a mixture of warm deep water and water formed on the Antarctic continental shelf. The shelf water gets its particular properties by convection due to cooling and ice formation during the winter. Owing to the nonlinear dependency of density of seawater on temperature and salinity, the processes determining the formation of Antarctic Bottom Water are hampered or even prevented until a certain stage has been reached. The formation of Bottom Water may, therefore, appear as a sudden flow, with a perceptible current speed (Fofonoff, 1956).

In the summer of 1968, the icebreaker USCGC GLACIER (WAGB-4), modified for oceanographic research, became available for the International Weddell Sea Oceangraphic Expedition (IWSOE) under the coordination of the National Science Foundation. The major purpose of the expedition was to study the formation of Antarctic Bottom Water. From the data of IWSOE '68, Elder and Seabrooke (in press) proposed a theory for the formation of Antarctic Bottom Water in the summer. They found the shelf water below 200 meters in the southwest Weddell Sea to be sufficiently dense to flow down the slope and mix with the warm deep layer and form Antarctic Bottom Water. Analysis of the data indicated that the dense shelf water did not form at the air-sea interface nor was it transported in from other areas. Bathymetric data indicate it was not water formed in the winter, trapped on the shelf, and prevented from flowing off the shelf. They concluded that the dense water was formed on the continental shelf by contact with the underside of the Filchner and Ronne Ice shelves.

The IWSOE '69 is the second phase of the oceanographic program carried out in the Weddell Sea and is a direct continuation of IWSOE '68. The USCGC GLACIER, Captain E. C. McCory, USCG, commanding, was assigned for the cruise. In addition to the already existing oceanographic facilities, a new level luffing crane with a trawl winch was installed to give piston coring and heavier dredging capabilities to the ship.

#### **IWSOE '69 Programs**

A number of institutions took part in the expedition conducting the following programs:

University of Bergen: To evaluate the theories of the formation of Antarctic Bottom Water, Dr. Thor Kvinge of the University of Bergen installed four current meter buoy arrays on the continental shelf near 74° S., 40° W. during IWSOE '68 to measure currents and temperature throughout the winter. One of the primary objectives of IWSOE'69 was to recover the current meters.

The University of Connecticut: Dr. John S. Rankin of the University of Connecticut studied the population density and diversity of the deep sea benthos of the Weddell Sea using an anchor dredge and an epibenthic sled.

The University of Minnesota: A program to study the population dynamics of Antarctic seals was conducted by Dr. Albert W. Erickson of the Bell Museum of Natural History, University of Minnesota. The seal census was conducted from the air by helicopter as well as from the ship. Specimens were also captured and blood samples taken for studies of phylogenetic and population of relationships.

The University of California, Los Angeles: Sedimentation processes operating in the Weddell Sea were studied by Richard D. LeFever of the Department of Geology, University of California, Los Angeles. A modified Ewing pis-

ton corer 20 feet in length was utilized to obtain sedimentary material. The cores were returned to the United States where they will be exposed to X-rays to determine the types and extent of sedimentary structures which are not otherwise visible. In addition, chemical analyses will be made on the sediments to determine carbonate or sulfate concentrations and source rock composition.

The U.S. Coast Guard Oceanographic Unit: The program conducted by the U.S. Coast Guard Oceanographic Unit consisted of physical oceanographic measurements, determinations of dissolved oxygen, pH, and nutrients, and bottom photography. Personnel making up the Unit's field party included:

Gary L. HUFFORD LT James M. SEABROOKE,	Oceanographer
USCG	Oceanographer
MSTI Peter R. SAN JULE,	
USCG	Oceanographic
	Technician
SO2 Robert C. MURRELL,	
USCG	Oceanographic
	Technician
MST2 Kenneth THOENI, USCG	Oceanographic
	Technician
YN2 Dwight E. OLSON, USCG	Oceanographic
	Technician
MST3 Bruce B. EDWARDS,	
USCG	Oceanographic
	Technician

Initially, the cruise was to be conducted over an eighty day period, starting in early January and ending on April first. However, GLACIER was assigned to first break a channel to McMurdo Station and met unexpectedly heavy ice concentrations, which delayed the start of IWSOE '69 until mid-Februry. The cruise lasted till March 24, 1969.

#### Station Procedure

On February 13, GLACIER departed Punta Arenas, Chile. It was tentatively agreed to concentrate the investigations in the southeastern part of the Weddell Sea in the area of the current meter arrays planted during IWSOE '68 until their recovery. However, the ship ran into heavy ice that was impenetrable sixty miles from the current meter arrays. After several unsuccessful attempts were made, it was necessary to abandon recovery of the arrays during IWSOE '69. A series of stations were then taken in the area.

The initial procedure followed by the ship upon arriving at station depended largely on ice conditions. During IWSOE '69 heavy ice concentrations were encountered, and only twenty-seven oceanographic stations taken. It was usually possible to ease the ship's bow into an ice floe and by slowly turning the screws, hold the bow in the floe until it froze, at the same time clearing a small area on either side aft of brash ice. This provided a clear area in which to lower oceanographic equipment. This procedure was adopted instead of the one utilized during IWSOE '68, i.e., easing the starboard side against a floe. It was necessary to keep both sides clear for work due to the addition of a starboard luffing crane and winch.

Although station plans were constantly changing owing to a number of circumstances, a station usually consisted of a Nansen cast, bottom photography, an STD cast, piston coring and bottom trawls and dredges.

Satellite navigation contributed greatly to the success of station position determination. No navigational aids are available in the Weddell Sea, and celestial navigation is hampered by generally overcast skies. Since the accuracy of satellite navigation is not affected by either clouds or indistinct horizon, use of this method during the expedition yielded accurate positions.

#### Data Acquisition and Initial Analysis

A summary of data collected at each station is presented in table 1.

#### Temperature Data

Teflon-lined Nansen bottles were equipped with two protected reversing thermometers and, at alternate depths below 150 meters, with unprotected thermometers. Sampling depths were approximately 0, 10, 25, 50, 75, 100, 150, 200, 300, 400, 500, 600, 700, 800, 1000, 1250, 1500 meters and at 300 meter intervals below 1500 meters, except that several bottles were placed at 25 meter intervals near the bottom.

With the ship firmly held in the ice on most stations, a zero wire angle was generally obtained and an acoustic depth-telemetering pinger was placed on the wire to make it possible to obtain samples within a few meters of the bottom.

Table I. Summary of Data Collected at Each Station.

	Date	Tim (GM	ie T)	Positi	ion	Depth of Water	Maximum Sampling			Bio		Photo.	snsu
Station	1969	On	Off	LAT S	LONG W	(meters)	Depth- Nansen STD	Nansen	STD	Bottom	Cores	Bottom Photo.	Seal Census
0001	24 Feb	0120	1824	74-31.6	30–18.9	513	510	X		X	X		X
0002	25	0100	1454	75-31.5	30-08.3	378	375	$\mathbf{X}$	$\mathbf{X}$	X	X		X
0003	26	0230	1020	76 - 38.1	31 - 48.4	436	434	$\mathbf{X}$			X		X
0004	26	1730	2350	77 - 05.4	35-02.6	803	800	X		X	X		X
0005	27	0800	1730	77 - 19.7	36-41.3	1065	1063	$\mathbf{X}$	X	X	X		X
0006	28 Feb-01 Mar	2330	0900	76 - 50.2	40 - 55.4	513	510	$\mathbf{X}$		$\mathbf{X}$	X		X
0007	01 Mar	1305	2050	77-16.0	42 - 38.3	500	495	X		X	X		
0008	02	0112	1054	77 - 38.5	42-27.8	570	565	X		X	X		X
0009	03-04	2110	0245	77 - 54.2	45-13.3	250	246	X		$\mathbf{X}$	X		
0010	04	1215	2045	77 - 50.0	42-05.2	657	655	X		X	X		X
0011	05	1700	2300	77 - 10.2	38-40.8	820	815	X		X	X	X	X
0012	06	1645	2330	77 - 18.9	37-42.3	988	985	X		X	X	X	X
0013	07	0600	0900	77 - 50.2	35-32.9	343	341	X	X				
0014	07	1245	1610	77-22.0	34 - 29.2	362	360	X	X				X
0015	08	0300	0645	76 - 52.9	32 - 49.7	375	372	$\mathbf{X}$	X		X		
0016	09	0230	0630	74-40.0	31-04.1	510	508	X	X				
0017	09	1355	1638	74 - 19.0	32-28.6	591	590	X	X				X
0018	10-11	0112	1418	74 - 15.0	32-30.0	640	240		rrent	Meter			X
0019	11–12	1715	0100	74-06.3	32–36.2	1447	1445	X		$\mathbf{X}$	X	X	X
0020	12	1008	1850	73 – 49.4	31 - 40.9	2317	2314	X		X	X	X	X
0021	13	0500	1616	73 - 52.0	31–17.6								
0022	14	0045	0958	73 - 29.0	30-24.1	3035	3035	X		X	X		X
0023	14-15	1448	0540	72-47.5	30-28.3	3658	3658	X		X	$\mathbf{X}$		
0024	15-16	2104	0950	71 - 36.1	30-36.1	3840	3800	$\mathbf{X}$		X	X		X
0025	16-17	2348	0506	70 - 38.8	33-32.3	4343	4340	X				X	
0026	17-18	2148	1204	68-36.8	32-03.6	4483	1090	X		X	X		
0027	19-21	2344	1725	64-50.6	41-24.7	4572	4572	X		X	X		

Standard analysis procedures were used for correcting thermometers and determining thermometric and accepted depths. Use of the shipboard computer made accurate real time data analysis and quality control possible on board.

#### Salinity Determination

Salinity was determined using an inductive salinometer, and the onboard computer.

#### Oxygen and pH

Dissolved oxygen and pH were determined on all the water samples using the methods described by Strickland and Parsons (1965). From the oxygen data, percent saturation and apparent oxygen utilization were calculated giving a gross estimate of biological activity.

#### **Nutrient Analysis**

Water samples were analyzed at sea for in-

organic phosphate, nitrate, nitrite and silicate using the methods described by Strickland and Parsons (1965). The ultraviolet spectrophotometer was shock-mounted to counteract the continual vibration of the ship in breaking ice. This arrangement worked quite well.

Frozen samples for ammonia and total phosphous were returned to the U.S. Coast Guard Oceanographic Unit for later analysis. Due to problems with the distilled water and de-ionizer, the data will be given in a later report.

#### Salinity-Temperature-Depth System (STD)

A continuous trace of temperature and salinity versus depth was obtained at only 8 stations due to malfunctions of the salinity sensor. A Nansen bottle was attached to the STD wire just above the sensor unit for calibration of the STD data.

#### Bottom Photography

A Thorndike (1959) type bottom contact camera system was used for bottom photographs. The camera system was set up to take a photograph when the camera lens was three feet above the bottom and at a sixty-degree angle from the vertical. The ship's photographer developed the film. the compass-oriented photographs revealed many benthic organisms as well as current ripple marks.

#### Results of Preliminary Analysis

Due to the limited number of oceanographic stations (27) only one vertical section was selected for analysis (figure 2-7).

Analysis of the data using preformed nutrients (figures 5-6) as well as temperature and salinity (figures 2-3) indicate that three water masses were present in the southeast Weddell Sea (table 2). These were the water mass found on the continental shelf; a warm intrusion which was found from about 400 meters to 1600 meters depth off the shelf; and the bottom water mass which may or may not be Antarctic Bottom Water.

The temperature and salinity distribution of the shelf water and warm deep water showed that the bottom water present could not be produced by mixing of these two masses (figure 2-3). Deacon (1937) postulated that the formation of Antarctic Bottom Water takes place only in the southwestern Weddell Sea. Elder and Seabrooke (in press) found formation of Antarctic Bottom Water in the southwestern Weddell Sea, (west of 40° longitude) during IWSOE '68 by mixing of dense shelf water with warm deep water. Data from IWSOE '69 indicates that Antarctic Bottom Water formation does not take place in the southeastern Weddell Sea (east of 40° longitude) in the summer.

A question arises as to where the bottom water comes from in the cross section for IWSOE '69. Bottom photographs obtained from the USNS Eltanin and IWSOE '68 (Hollister and Elder, 1969) indicate a westerly flowing bottom current which follows the bathymetric contours in the southern Weddell Sea. Only a few photographs were obtained during IWSOE '69, but they also suggest a westerly flowing bottom current. Therefore, the bottom water present in the southeast Weddell Sea in 1969 may be part of the westerly flowing Antarctic coastal current which is evident only in the Weddell Sea area, where an extensive cyclonic motion occurs to the south of the Circumpolar current (Sverdrup, Johnson and Fleming, 1942). Further investigation is being conducted to determine the origin of the bottom water found in the southwestern Weddell Sea. Data collected during IWSOE '70 will hopefully add light to the problem.

Table II. Mean Characteristics of water masses present in the Weddell Sea in February 1969.

					d Nutrients -at/l)
Year	Water Mass	Temperature	Salinity	Phosphate	Nitrate
1969	Shelf Water	-1.60° C	<34.60%。	1.65±.19	$22.37 \pm 2.46$
	Warm Intrusion	0.40° C	34.67%。	$1.15 \pm .22$	$14.57 \pm 2.89$
	Bottom Water	−0.26° C	34.66%。	$1.31 \pm .12$	$17.38 \pm 2.10$

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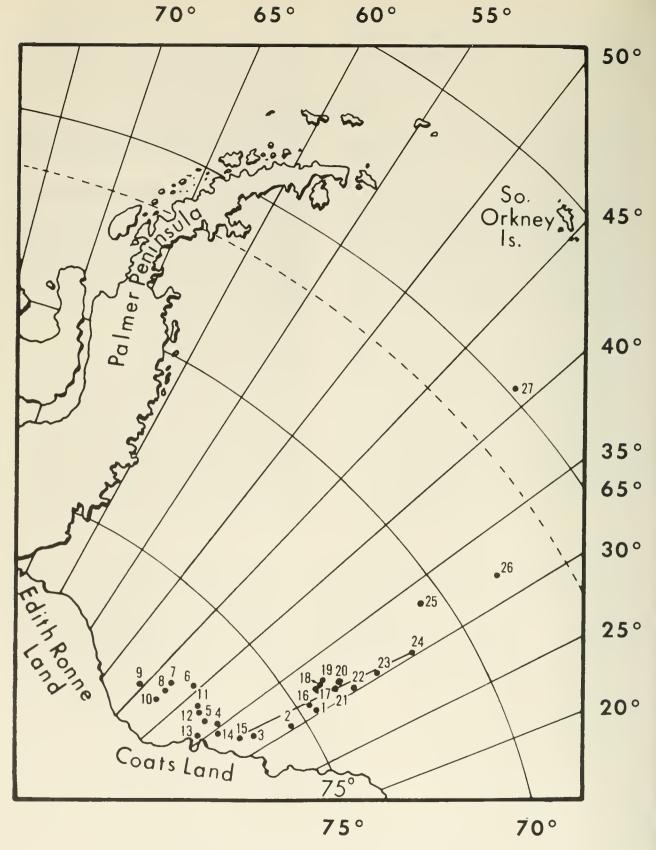


Figure 1. IWOSE '69 hydrographic station locations.

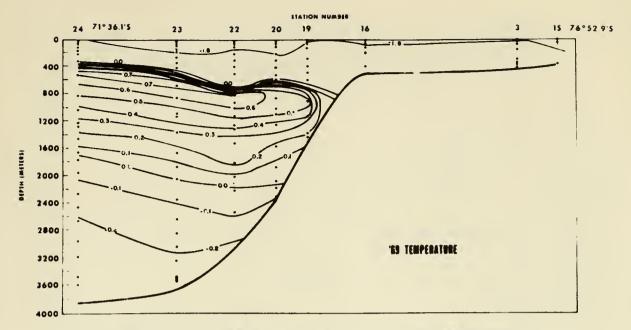


Figure 2. Vertical distribution of temperature (°C) during IWSOE '69.

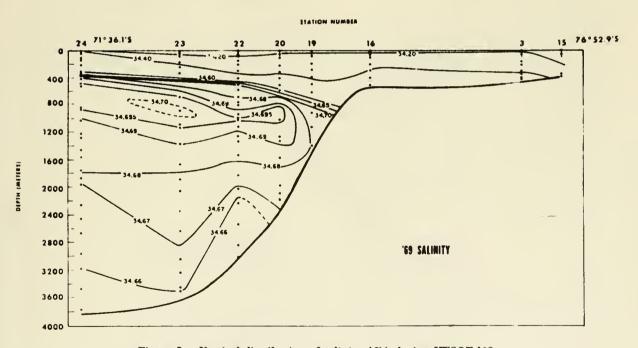


Figure 3. Vertical distribution of salinity (%) during IWSOE '69.



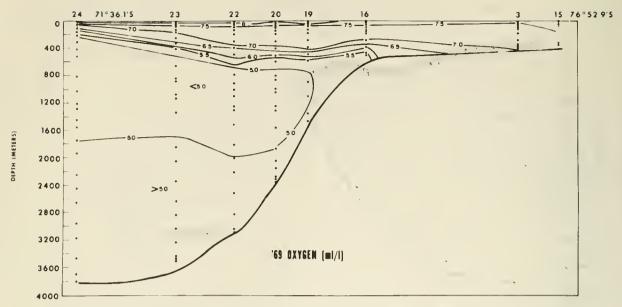


Figure 4. Vertical distribution of dissolved oxygen (ml/L) during IWSOE '69.

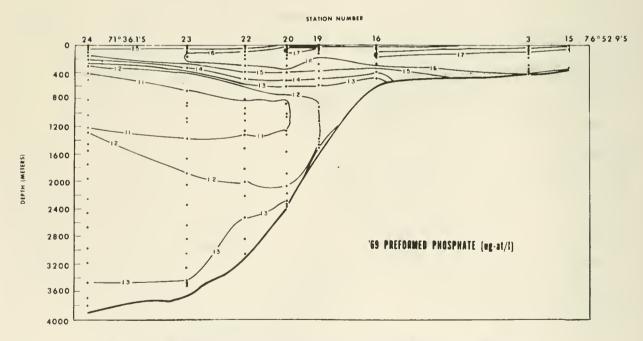


Figure 5. Vertical distribution of performed phosphate (µg-at/L) during IWSOE '69.



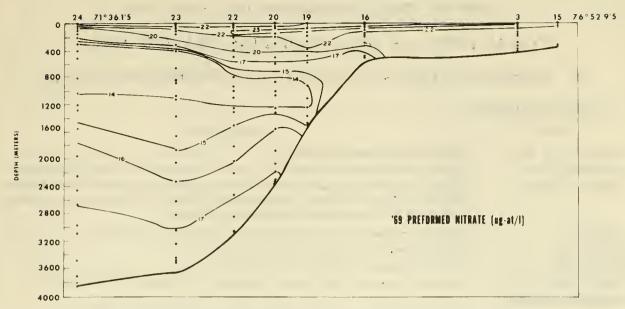


Figure 6. Vertical distribution of performed nitrate (µg-at/L) during IWSOE '69.

#### EXPLANATION OF OCEANOGRAPHIC STATION DATA

#### A. Description of Entries, Units and Codes on NODC Station Listing

#### 1. Surface Observations

Entry

Description of Field

NODC REF. ID. NO.

NODC reference identity number.

COUNTRY CODE CRUISE NUMBER Indicates nationality of the institute or agency conducting the survey or expedition. A reference number assigned by NODC for storage-retrieval purposes. NODC Publication C-1, Reference Sources of Oceanographic Station Data, gives complete biblio-

graphic and other pertinent information for each cruise.

SHIP CODE

Alphabetic representation of ship's name (or ICES numeric ship code).

LATITUDE LONGITUDE Degrees, minutes, and tenths of minutes, N or S. Degrees, minutes, and tenths of minutes, E or W.

DRIFT INDICATOR

The letter D appears in this column if extensive drift occurred while on station.

MARSDEN SQUARE

10°

Marsden square number according to the Marsden square system.

1.

The one-degree square number according to the Marsden square system.

STATION TIME

(GMT)

Date and time given by the originator (GMT).

MONTH DAY

Month (GMT). Day (GMT).

HR. 1-10

GMT to nearest tenth of an hour.

YEAR

Year.

ORIGINATOR's

CRUISE NUMBER

Alphabetic or alpha-numeric designator as assigned by the originator. If the year of the cruise forms part of the cruise numbering system, the year digits are found in

preceding field.

STATION NUMBER

Originator's station number or designator.

DEPTH OF BOTTOM

Corrected or uncorrected sounding depth in meters.

MAX. DEPTH OF

SAMPLES

Depth of deepest sample in hundreds of meters to nearest hundred-meter interval.

WAVE OBSERVATIONS

DIR.

Direction from which the dominant waves are coming, in tens of degrees, according to

WMO Code 0885.

HGT.

Height of dominant waves according to WMO Code 1555.

PER. SEA AMT. Period of dominant waves according to WMO Code 3155.

Sea amount (sea state) according to WMO Code 3700 (preceded by the letter A).

WEATHER CODE

If preceded by the letter X, weather according to WMO Code 4501. A numeric two-digit

entry indicates weather according to WMO Code 4677.

\*INSTR./CLOUD

This field is used either for recording instrument code when electronically obtained data are being reported, or for reporting cloud type and cloud amount when conven-

tional Nansen cast data are being reported.

\*INSTR.

A two character code representing instrument package of system.

TYPE AMT.

Cloud type according to WMO Code 0500. Cloud amount according to WMO Code 2700.

NODC STATION

NUMBER

Assigned by NODC for data storage and retrieval purposes. The NODC Reference Identity and Station numbers combined, uniquely define each station in the NODC

archives.

\*DT/S"/D This indicator specifies that the reported data have been obtained electronically rather

than by Nansen-type casts. U (up) and D (down) are cast indicators for electronically obtained serial data and specify that the data were taken while hoisting or lowering

respectively.

WATER COLOR Water color according to Forel-Ule Code.

TRANS. (m) Water transparency in meters as determined by Secchi disc.

WIND

DIR. Direction from which wind is blowing in tens of degrees, according to WMO Code 0877.

SPEED OR FORCE If preceded by letter S, wind speed in knots; if preceded by letter F, wind force in

Beaufort code.

BAROMETER (mbs) Barometric pressure in millibars; tens, units, and tenths places only.

AIR TEMPERATURE °C.

DRY BUL Dry bulb air temperature in degrees centigrade, to tenths.

WET BULB Wet bulb air temperature in degrees centigrade, to tenths.

VIS CODE Visibility according to WMO Code 4300.

NUMBER OBS, LEVEL The number of observed levels associated with the station.

SPECIAL Entries in this space vary with individual cruises or stations. Information concerning

OBSERVATIONS entries in this field can be requested from the NODC.

2. A complete description of the codes can be found in NODC publication M-2 (Rev. August 1964), "Processing Physical and Chemical Data from Oceanographic Stations."

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	130	)	085	0078		179	343		276		0004004	0055		14414 14415	735 731	180		026	283	068	788
	130	)	ST 085	0100		185 186	343		277		0004006	0055		14415	741G	191		012	294	070	784
			ST			185	343		277		0003967	0065		14419	727						
	130	)	5T 0BS	0 0150 0156	-0	184	343		277	0 0	0003963	0075	) ]	14424	724 723	180		014	316	069	784
			ST	0200		181	343	8	277		0003932	0095		14433	721						
	130	)	085	0208 0 0250		181 180	343		277		0003867	0114		14435 14442	720 714	181		007	304	070	788
			ST ST			179	344		277		0003787	0133	3 1	14451	706						
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	130	)	ST OBS	D 0400 T0415		102 088	344		277		0003548	0170		14505	6110	219		044	311	085	781
			ST	0500		001	346		278		0003028	0203		14571	523				247		700
	130	)	OBS	T0512	0	015	346	26	278	32				14580	505	000		016	346	101	780
														MAX				- CLOUI	_		
						I															NODC
10.	SNIP	LATITU	306	LONGITUDE	SOU	ARE	STAT	GMT)	ME	YEAR	ORIGINA CRUISE ST.	TOR'S ATION	DEF	O DEPTH		WAVE ERVATIONS		g CODE			STATION
y 10.	CODE	٠	1/10	1/10	10°	ARE 1°	MOI	GMT)	R,1/10		CRUISE ST.	ATION	8011	O OF	S DIR.	HGT PER	THE	R CODE	S A1		NUMBER
IV ID.	CODE	7531	1/10		sou	1° 50	MO 1	GMT) DAY HI 25 0	R,1/10	1969	CRUISE ST.	ATION IMBER	044	TOM STAPL	S DIR.	ERVATION	THE	R CODE	S A1		0002
	CODE	٠	1/10	1/10	10°	50 WA	MO I	GMT) DAY HI 25 0	R,1/10	BARG	CRUISE ST. NO. NU.	ATION JMBER P. °C VIS WET COO	0 4 4	0 OF STAPL 21 04	S DIR.	HGT PER	THE CDC	R CODE	S A1		NUMBER
NO.	CODE	٠	1/10	1/10	10°	50 WA COLOR	MO II	DAY HI	R.1/10	1969 BARG METE (mbs	CRUISE ST. NO. NU.	P. °C VIS	0 4	OF STAPL  21 04  0. SPINS  THS OBSER	OBS	HGT PER	THE CDC	R CODE	S A1		NUMBER
IV ID.	CODE GL	7531	1/10	030080W	555	50 WA COLOR CODE	MO II	DAY HI	\$700CE	BARC METE (mbs	CRUISE ST. NO. NI.  OO 2  AIR TEM  ORY BULS  1 -078	ATION JABER  P. 10 VIS WET COOR BULB  O 8 2 8	044 044 050 050 050 050 050	OEPTION OF STAPEL  21 04  0. SPI STHIS OBSER*	OBS OBS ODR OO ECIAL VATIONS	ERVATIONS HIGT PER	X 4	R CODE	S		0002
ID.	CODE	7531	1/10	030080W	555	50 WA COLOR	MO II	DAY HI	R.1/10	BARC METE (mbs	CRUISE ST. NO. NU.	MATION JAMBER  P. *C VIS WET COC BULB  O 8 2 8	044 044 08 08 08 08 08 08 08 08	OF STAPL  21 04  0. SPINS  THS OBSER	OBS	HGT PER	THE CDC	R CODE  IVPE AA  O 3	NO3-N	\$104-5	0002
Y ID.	GL MESSENGE	7531	1/10 145	030080W	555	SO WA COLOR CODE DT	MO FOR THE SECOND SECON	DAY HI	\$1710  56   1  100   SPEED   OR   FOICE   SIGN	1969	CRUISE NO. NI.  OO 2  O- AIR TEM ORY 1 BULB  1 - O 7 8  SPECIFIC VOLUMANOMALY-XIO	P. C VISTOR OB 2 B	8011 044 080 080 080 080 080	OFPTION OF TOWN OF TOWN OF THE OBSER	OBS OBS ODR OO ECIAL VATIONS	PO4-P	X4	R CODE  IVPE AA  O 3	NO3-N	\$104-5	0002
ID.	MESSENGE TIME HR 1/10	7531	1/10 145	030080W	555 555	SO WA COLOR CODE DT	MO I TER  TRANS.  SD  S	GMT)  DAY HI  25 0  DIR.  00  */	R.1/10 156 1 156 1 SPEED OR FORCE 500 SIGN	8ARC METE (mbs 95	CRUISE ST. NO. NIL	P. C VISTOR OB 2 B	04- 08- 08- 08- 08- 08- 08- 08- 08- 08- 08	OFFTION OFFTI	OBS OBS ODR OO ECIAL VATIONS	PO4-P	X4	R CODE  IVPE AA  O 3	NO3-N	\$104-5	0002
ID.	GL MESSENGE	7531	1/10 145	- 1/10 0	555 555	SO WA COLOR CODE DT	MO I TER  TRANS.  SD  S	DAY HI 25 0 DIR. 00	\$1710  56   1  100   SPEED   OR   FOICE   SIGN	8ARC METE (mbs 95	CRUISE NO. NI.  OO 2  O- AIR TEM ORY 1 BULB  1 - O 7 8  SPECIFIC VOLUMANOMALY-XIO	ATION JMBER  P. *C	BOTT O4	OFPTION OF TOWN OF TOWN OF THE OBSER	OBS OBS ODR OO ECIAL VATIONS	PO4-P	X4	R CODE  IVPE AA  O 3	NO3-N	\$104-5	0002
ID.	MESSENGE TIME HR 1/10	7531	CARRELL TYPE STORS STORS	030080W	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	50 WA COLOR COOE DT 'C	MO   10   10   10   10   10   10   10   1	DIR. 000	\$1710 \$156 ] \$1700 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$1600 \$16000 \$16000 \$16000 \$16000 \$16000 \$16000 \$16000 \$16000 \$16000 \$16000 \$16000 \$16000 \$16000 \$16000 \$16000 \$16000 \$16000 \$16000 \$16000 \$16000 \$16000 \$16000 \$16000 \$16000 \$16000 \$16000 \$16000 \$16000 \$16000 \$16000 \$16000 \$16000 \$16000 \$16000 \$16000 \$16000 \$16000 \$16000 \$16000 \$16000 \$16	95 MA-T	CRUISE ST. NO. NI. OO 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	ATION   MBER	044 044 08 08 08 08 08 08 08 08 08 08	DEPTION OFFI OF STAMPLE 21 04 00. SPINS. SOUND VELOCITY 14398 14400 14400	OBS OBS ODR OO ECIAL VATIONS	PO4-P	X4	R CODE  IVPE AA  O 3	NO3-N	\$104-5	0002
ID. NO.	MESSENGE TIME HR 1/10	7531	CARREST OBS	030080W	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	10   50   WA   COLOR CODE   DT   %   180   178	MO   10   12   12   12   12   12   12   12	DIR. 000	\$100   SPEED ON SOURCE   SOURC	95 MA-T	CRUISE NO. NU.  00 2	ATION   MBER	04. 04. 08. 08. 08. 08. 08. 08. 08. 08. 08. 08	DEPTION OFFICATION OF STAPE ST	OBS OBS ODR OO ECIAL VATIONS	PO4-P	X4	R CODE  IVPE AA  O 3	NO3-N	\$104-5	0002
ID. NO.	MESSENGE HR 1/10	7531	ST OBS ST OBS OBS	030080W  0 0EPTH Im1  0 0000 0000 0000 0010 0010 0020 0025	-0 -0 -0 -0 -0 -0	180 180 180 178 177 177	MO !! 02   TER   1RANS. [m]   SD     S     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     34     3	DIR 000	\$1/10 \$756 1 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$	95 AA-T  54 54 54 57 57	CRUISE ST. NO. NO. NO. NO. NO. NO. NO. NO. NO. NO	ATION   MBER   VI   MBER   VI	044 044 00 08 08 06 08 06 08 06 08 06 08 06 08 06 08 06 08 06 08 08 08 08 08 08 08 08 08 08 08 08 08	DEPTION STAPPL 21 04 0 OFF STAPPL 21 04 0 SPIPS OBSER* 55 55 55 55 55 55 55 55 55 55 55 55 55	OBS OBS ODR OO ECIAL VATIONS	PO4-P	X4	R CODE  IVPE AA  O 3	NO3-N	\$104-5	0002
ID.	MESSENGE HR 1/10	7531	ST OBS ST	030080W  0 OEPTH Im1  0 0000 0000 0010 0010 0020 0020 0025 0030	-0 -0 -0 -0 -0 -0	180 180 180 178 177 177 174 175	MO   1   02   7   TER   1   1   1   1   1   1   1   1   1	DAY HI 25 0 W DIR. 18 183 19 185 223 228 2258 27	\$1/10 \$756 1 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$1/10 \$	8ARC METE (mbs 95 MA-T	CRUISE ST. NO. NI. OO 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	ATION   MBER	044 044 080 080 080 080 080 080 080 080	DEPTION STAPPL 21 04 0 OFF STAPPL 21 04 0 SPIPS OBSER 55 55 55 55 55 55 55 55 55 55 55 55 55	OBS OBS ODR OO ECIAL VATIONS	PO4-P	X4	R CODE  IVPE AA  O 3	NO3-N	\$104-5	0002
ID.	MESSENGE HR 1/10	7531	1/10 145 177E ST OBS ST OBS OBS OBS ST OBS	0 0000 0000 0000 0000 0000 0000 0000 0000	-0 -0 -0 -0 -0 -0 -0	10   10   10   10   10   10   10   10	MO U U TER NS. 1 SD S S S S S S S S S S S S S S S S S	OAY HI 25 0 W DIR 18 18 18 19 185 223 2228 227 267 29	R,1/10 R,1/10 S166 S160 S160 S160 S160 S160 S160 S1	8ARC METE (mbs) 95 AA-T	CRUISE ST. NO. NO. NO. NO. NO. NO. NO. NO. NO. NO	NO   NO   NO   NO   NO   NO   NO   NO	044 NG OBB DEF 22 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	DEPTION STAMPL 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21 04 21	OBS OBS ODR OO ECIAL VATIONS	PO4-P	X4	R CODE  IVPE AA  O 3	NO3-N	\$104-5	0002
ID.	MESSENGE HR 1/10	7531	1/10 1/45 1/45 1/45 1/45 1/45 1/45 1/45 1/45	D 0000 0000 0000 0000 0000 0000 0000 0	-0 -0 -0 -0 -0 -0 -0 -0 -0 -0	10   50   WA   COLOR   COOR   DT   T   T   T   T   T   T   T   T	MO I I I I I I I I I I I I I I I I I I I	DAY HI DAY HI 25 0 00 	\$100 \$100 \$100 \$100 \$100 \$100 \$100 \$100	8ARC METEL INDIA	CRUISE ST. NO. 00 2  On AIR TEM ORY BULB 1 -078  SPECIFIC VOLUM ANDMALY—E10  0005593  0005576  0005242	ATION MARER  P. 10 WET COMMENT	044 NC OBB DEP	DEPTION OF THE STAND OF THE STA	OBS OBS ODR OO ECIAL VATIONS	PO4-P	X4	R CODE  IVPE AA  O 3	NO3-N	\$104-5	0002
ID.	MESSENGE HR 1/10	7531	1/10 145 177E ST OBS ST OBS OBS OBS ST OBS	0 0000 0000 0000 0000 0000 0000 0000 0000	-0 -0 -0 -0 -0 -0 -0 -0 -0 -0 -0 -0 -0 -	180 180 180 178 178 177 174 175 175 175 175 176 176	MO 1 TER TEANNS. SD 34 34 34 34 34 34 34 34 34 34 34 34 34	DAY HI 25 0 000 W 000 V 18 18 3 19 18 5 22 8 22 7 26 7 26 7 26 7 30 7	R,1/10 R,1/10 S166 S160 S160 S160 S160 S160 S160 S1	9554 554 554 554 557 557 560 660 662 662 662	CRUISE ST. NO. NO. NO. NO. NO. NO. NO. NO. NO. NO	ATION  ATION  ATION  P. **C	044 NCO OBB DEP 22 2 2 2 3 M	DEPTION OF STANDED TO	OBS OBS ODR OO ECIAL VATIONS	PO4-P	X4	R CODE  IVPE AA  O 3	NO3-N	\$104-5	0002
ID.	MESSENGE HR 1/10	7531	C	D 0000 0000 0000 0000 0000 0000 0000 0	Solution   Solution	180 DT	MO 1 TER TEANS: SD 34 34 34 34 34 34 34 34 34 34 34 34 34 3	DAY HI 25 0 00 18 18 18 18 18 18 18 22 22 28 27 26 7 29 30 7 30 7 30 7 30 7 30 7 30 7 30 7 30 30 30 30 30 30 30 30 30 30	\$100 SIGM	95 MA-T  54  54  554  557  559  660  662  664  664	CRUISE ST. NO. 00 2  On AIR TEM ORY BULB 1 -078  SPECIFIC VOLUM ANDMALY—E10  0005593  0005576  0005242	ATION  ATION  ATION  ATION  P. *C	044 NCCOBBOTTO	DEPTION OF THE STAND OF THE STA	OBS OBS ODR OO ECIAL VATIONS	PO4-P	X4	R CODE  IVPE AA  O 3	NO3-N	\$104-5	0002
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			ST		0150			180	34			767		00042		006		144		744									
	10	9	OBS	5	0157	7	-0	180	34	353	3 2	767			-			144	426	742	19	99		05	50	310	069	788	
			ST	D	0200	)	-0	179	34	36	2	768		00041	15	008	9	144	434	728									
	10	9	085	5	T0209	7	-0	178	34	365	2	768						144	436	725	18	80		00	05	293	070	789	
			ST	D	0250	)	-0	164	34	38	2	769		00039	80	010	9	144	450	710									
			ST		0300		-0	138	34	42	2	772		00037	42	012	9	144	471	680									
	10		085		1030			134		429	_	772							474	675	2:	10		0.0	06	306	078	785	
	10	9	085	5	T0390	)	-0	066	34	530	) 2	778						145	521	592	20	06		00	08	321	089	783	

REFERENCE CTRY IO.	SHIP	LATITUI	DE LO	AGITUGE PO	AAARSQEN SOUARE	STATION T	IME YEA	ORIGINATO	ION	DEPTH DEPTH		WAVE RVATIONS	WEA- THER	CLOUG		51	NOOC	
CODE NO.	CODE	•	1/10	1/10 03		MO DAY		NO, NUA	Aller "	S'MPL	1	HGT PER SE		7 8	-		UMBER	
318085	GL	7628	15   03	1484W	555 61 WAI		055 196	ARO- AIR TEMP.		NO. 50	ECIAL	0   X	X2	1 118	'	'	0005	
					COLOR	TRANS. OIR.	SPEED M	ETER ORY V	VET CODE		VATIONS							
						00		28 -051 -0	56 8	12								_
	MESSENGR		C AND	OEPTH (m)	1 %	s ·/.	SIGMA-1	SPECIFIC VOLUME	₹ ∆ a DYN. M.	SOUND	02 ml/l	PO <sub>4</sub> -P	TOTAL-P	NO2-N	ио₃-и	SI 04-Si	pN	200
	HR 1/10		TYPE	0		-	1	ANOWA[1-110	X 103	VELOCITY		pg = m1/( )	yg - e1/l	νg = σ1/l	μg - at/l	µg - σ}/(		
	i		STD	0000	-0172	3402	2740	0006879	0000	14399	794			1			Į.	1 3
	056	•	OBS	0000	-0172	34018 3403	2740 2741	0006786	0007	14399 14401	794 794	179		017	268	062	750	
	056	<b>5</b>	STD OBS	0010 0018	-0173 -0174	34038	2742	0000180		14402	794	176		009	263	063	781	
			STD	0020	-0175 -0179	3407 3420	2744 2755	0006460	0013	14402	788 762							
	056	5	STD OBS	0043	-0182	34306	2764			14406	739	205		005	289	065	781	
	056		STD OBS	0050 0068	-0182 -0183	3431 34316	2764 2764	0004581	0029	14407 14409	735 732	201		010	269	066	782	
	0.70	,	STD	0075	-0183	3432	2765	0004510	0041	14411	735				201		700	
	056	5	OBS STD	0094 0100	-0183 -0183	34318 3432	2765 2765	0004471	0052	14414	743 743	204		001	291	066	782	
			STD	0125	-0182	3432	2765	0004457	0063	14419	741	. 202			205	060	702	
	056	•	OBS STD	0144 0150	-0182 -0182	34329 3433	2765 2766	0004366	0074	14423	7420 739	202		000	295	068	782	
	056	5	OBS	0195	-0183	34344	2767			14431	735	197		025	314	070	780	
			STD STD	0200 0250	-0183 -0181	3435 3437	2767 2769	0004180	0096 0116	14432	735 732							
	056	5	OBS	T0295	-0180	34384		0003820	0136	14450 14450	726 724	201		800	280	071	780	
	056	5	STD OBS	0300 0345	-0181 -0183	3439 34406	2770 2772	0003820	0136	14457	716	208		000	300	071	782	
	0.56		OBS	0370	-0179 -0187	34424 34438				14463 14464	719 726	207 213		002	300 270	072	781 781	
	056		OBS STD	T0395 0400	-0188	3445	2775	0003279	0171	14464	725							
	056	5	OBS	0429	-0191	34514	2781			14469	703	211		000	303	076	782	
REFERENCE					4A/ RSQEN	STATION	TIME	ORIGINAT	OR*S	DEPTH MA		WAVE	WEA-	CLOUG			NODC	
CTRY IO.	SHIP	LATITU		NOCTUDE BOUTED	SOUARE	(GMT	YEA	CKUISE SIM	TION	TO DEPT		HGT PER S	THER	TYPE AM		5	TATION	
318085	GL	7705	45 03	17/10 = 15026W	10° 1° 555 75	MO DAY	205 196			0805 0		0 X	X7	5 7			0006	
	, ,				WA	TER	WIND	ARO- AIR TEMP.	VIS.	NO. SI	PECIAL							
					COLOR	TRANS. DIR.	OR "		WET CODE	GENTHS CHIEF	RVATIONS							
						00	500	915 -050 -0	054 8	13							T	77
	MESSENGE TIME HR 1/10	T NO.	C VRO TYPE	DEPTH (m)	7 ℃	s */	SIGMA-	T SPECIFIC VOLUME	∑ ∆ 0 DYN, M. x 10 <sup>3</sup>	VELOCITY	0 2 ml/l	PO4-P µg = 01/1	TOTAL-P ug - 01/1	NO <sub>2</sub> -N µg - a1/1	NO3-N NO - 01/I	\$104→\$ µg - 01/		o c
	HR 1/10	' 1				+											1	Ħ
	1	-	STD	0000	-0183	3426	2760	0004964	0000	14397 14397	763 763	180		009	280	067	731	
	19	>	OBS STD	0000 0010	-0183 -0183	34264 3427	2760 2 <b>76</b> 0	0004935	0005	14399	765	100		003	200	007	, , ,	
			STD	0020 0030	-0182 -0182	3427 3427	2761 2761	0004914 0004886	0010	14401	768 770							
	19	5	OBS	0031	-0182	34272	2761			14403	770	185		006	282	067	769	
	19	5	STD	0050 0056	-0183 -0183	3430 34309	2763 2764	0004656	0024	14406 14407	743 740	193		002	294	068	779	
			STD	0075	-0182	3433	2766	0004412	0036	14411	754							
	19	5	OBS STD	T0082 0100	-0182 -0182	34331 3435	2766 2767	0004244	0046	14412 14416	757 745	206		004	292	069	782	
	1.0	-	STD	0125	-0182	3436 34369	2768	0004152	0057	14420 14421	733 730	201		002	296	070	783	
	19	>	OBS STD	0133 0150	-0182 -0182	3438	2769 2770	0003983	0067		729			002				
	19	5	085	0183	-0183 -0183	34392 3440	2771 2771	0003797	0087	14430 14433	728 728	208			299	070	781	
			5T0 5TD	0200 0250	-0185	3444	2775	0003455	0105	14441	726							
	19	5	085 STD	0284 0300	-0186 -0187	34466 3449	2777 2779	0003037	0121	14445 14449	724 722	208		000	299	071	781	
	19	5	OBS	T0384	-0191	34580	2786			14462	717	192		000	295	069	782	
	19	5	STD OBS	0400 T0484	-0191 -0192	3459 34610	2787 2789	0002201	0147	14465 14479	718 721	197		000	297	068	784	
			STD	0500	-0193	3461	2789	0001960	0168	14481	721							
	19	5	OBS STD	T0587 0600	-0197 -0197	34629 3463	2790 2790	0001756	0187	14494 14496	719 718	200		000	295	069	782	
	19	5	OBS	0687		34660	)		0202		712	212		001	302	071	782	
	19	5	STD OBS	0700 0765	-0198 -0198	3467 34713	2794 2797			14524	707	212		000	297	073	782	
	19		STD	0080 0080T	-0195 -0195	3472 34721	2798 2798		0214	14532 14532	707 707	209		002	296	071	788	
	19	,	003	10000	-0133	5-1123	2170			- 1772	. 0 1	-07			_ , 0	0.1		

ID.	SHIP	LATIT	UDE 1/10	LOP	GITUDE	DEFT	W/ 25			ION TI		YEAR	CRUISE NO.		ATION UMBER	7	EPTH TO TTOM	MAX. DEPTN OF S'MPL*	1 047	WAVE ERVATIONS	WEA THER CODI		-	S1	NODC ATION UMBER
3085	GL	771		0.3	6413W	$\vdash$	555	76				1969		005		12.0	85	11	00	o x	X7	5 8			0007
0000	l OL	1 / / 12	713	03	OTION	1 1	اررر	WA			םאו/	BAR	1	AIR TEM	P. °C	١,	NO. 1			10 17 1	1 ^ '	1 210	1	'	,000
								COLOR	TBANS (m)	DIR	SPEED OR FOICE	MET	ER	DRY IUL9	WET CO	5 6	DBS. PTHS		CIAL 'ATIONS						
		<b>_</b>							L	06	505	92	6 -0	59	061 5		16								
	MESSENG TIME HR 1/1	of NO.	CA		DEPTH	(m)	1	٣	s	٠/٠.	SIG	MA-T	SPECIFIC	C VOLUA	AE S ∆ DYN. X 10	м.	VELO		02 ml/l	PO4-P y9 - at/I	101AL-I	NO2-N vg - at/l	NO3-N ug - ai/i	\$1 O4\$1 pg - ot/1	рМ
			1						1		1				.									-	1
	•			TD	000			181	34	-	27		000	4853	000	0		399	839	160			242	. 7.	744
	13	8	ОВ	S TD	000		-	181 182	34	279	27 27		000	4838	000	6	144	399	839 845	169		021	262	070	764
	13	a	08		001			182		282	27		000	4030	, 000	)		401	8360	170		007	252	068	792
		•		TD	002		-	182	34		27	-	000	4815	001	0	144		852	0		50.		500	. , ,
	13	8	08		002			182		280	27		•••			•		+02	854	163		006	248	064	799
			S	ΤĎ	003	0	-0	182	34	30	27	63	000	4670	001	4	144	403	814						
			S	TD	005	0	-0	183	34	36	27	68	000	4195	002	3	144	407	727						
	13	8	QB	_	005			183	-	3 <b>6</b> 5	27							407	725	210		007	287	069	78
			_	TD	007		-0	184	34		27	71	000	3869	003	3	144	+11	725						
	13	8	08		007				-	403				2.0-			1.		725	202		006	297	068	78
	13			TD	010			186	34	42 424	27 27		000	3697	7 004	3		415 415	733	200		006	202	060	7.0
	15		OB	S TD	010			186 187	34		27		000	3524	005	2		419	734	209		005	293	069	78
			-	TD	015			189	34		27			3352				422	723						
	13	8	08		015	-		189	-	464	27		000		. 000	•		423	722	219		002	300	069	78
		•		T D	020			195	34		27		000	2998	3 007	6		428	723	/		002	200	00,	
	13	8	OB		T020		-0	196	34	502	27	80				_	144	429	723	204		001	298	068	78
			S	TD	025	0	-0	195	34	53	27	82	000	2738	009	1	144	437	720						
			S	TD	030	0	-0	193	34	56	27	84	000	2482	010	4	144	447	716						
	13	8	OB	_	031			193		561	27							449	715	192		000	293	068	78
			_	TD	040			190	34		27		000	2203	012	7		465	721						
	13	8	08	_	T041			190		591	27							467	722	198		000	295	068	788
	1.2	0	_	TD	050			191	34			88	000	1991	014	8		482	719	305			205		7.0
	13 13		08 08		T051			191 194		616 620	27	89 89						484 494	719 725	205 204		000	295 293	067	78 78
	13	0		S TD	060			196	34			90	000	1821	016	7		496	725	204		001	273	067	18
				TD	070		_	206	34	-		91		1614		-	-	509	724						
	13	8	08		T075	-		208		644	27		000		. 010	•		517	720	207		003	299	069	78
				TD	080			207	34			92	000	1444	020	0		525	714			000	_,,		
	13	8	OB		T088			204	34	670	27	94						541	706	199		000	294	071	78
			S	TD	090	0	-0	202	34	68	27	94	000	1216	021	3	149	545	706						
	13	8	ОВ	S	T098	9	-0	194	34	702	27	96					149	564	706	202		001	298	070	78
				ΤD	100		_	193	34	_		97	000	0940	022	4		566	705						
	13	8	OB	S	T108	3	-0	191	34	743	27	99					145	582	697	198		002	299	072	781

REFERENCE	,			E 14/3	SOEN	STATION T	IME		DRIGI	NAIDE	1*5	DEPTH	MAX		WAVE	0.00	WEA-	Cront			NODC	
CTAY ID. COC	DE LA TITOLE		NGITUDE '1/10	0 J	JARE		0.1/10	YEAR	CRUISE NO.	STATE		MOTTO	DF S'MPL	1 00	HGT PE		THER	TYPE AA			NUMBER	
<del>                                    </del>		/10		= 10°	1.	MD DAY H			+		-	- 05			1		+		1			1
318085  GL	77197	S   03	6413W	555				1969		0.5		1085	11	00	0   X	- 1	X7	0 3	1		0008	1
					WA		VIND	9 A R	U-	EMP. 1	VIS.	ND. 085.	SPE	ECIAL								
					COLDR	TRANS. OIR.	FORCE			BU	LB CODE	DEPTHS	DBSER	VATIONS								
					DT	50 06	505	92	6 -059	-06	1 6	23			ĺ							
			T			1 - 1 - 1	1		T-1	-					_					1	1	
MESS TU	ME OF NO.	CARD	DEPTH 0	n) l	1°C	\$ */	SIG	T-AN	ANOMALY-	UME X10 <sup>7</sup>	₹ △ D DYN. M. x 10 <sup>3</sup>	VELO		D <sub>2</sub> ml/	PD,		TOTA E-P:	NO2-N	NO3-N vg - ni/l	\$1 O4-5 yg - 01/		2
HR	1/10						-		-	-	X 10°	-	-						79 - 57	10		
	1						1					1	_								1	-
		STD	0000		173	3423	27		00052	48	0000	144										
1	115	085	0000		173	34230 3424	27 27		00051	4.3	0005	144										
		STD	0010		174	34240	27		00051	03	0005	144										
		STD	0020		174	3425	27		00051	03	0010	144										
(	001	085	0020		174	34247	27					144										
		085	0025	-0	175	34262	27	60				144	05									
		STD	0030		175	3429	27		00047	80	0015	144										
		085	0030		175	34288	27					144										
		STD	0050		177	3437	27		00041	33	0024	144										
		OBS	0050		177	34370	27					144										
		STD	0075		178	3440	27		00038	86	0034	144										
		OBS STD	0075		178	34400 3442	27 27		00037	20	0044	144										
		OBS	0100		180	34418	27		00001	20	0044	144										
		STO	0125		182	3444	27		00035	39	0053	144										
		OBS	0125		182	34440	27				•	144										
		STD	0150	) -C	183	3446	27	76	00033	68	0061	144	+25									
		085	0150		183	34460	27					144										
		STD	0200		185	3450	27		00030	26	0077	144										
		OBS	0200		185	34500	27				0000	144										
		STD	0250		186	3453		82	00027	19	0092	144										
		OBS STD	0250		186	34528 3456	27 27		00025	27	0105	144										
		085	0300		188	34555	27		00023	31	0103	144										
		STD	0400		188	3458		86	00022	88	0129	144										
		085	0400		188	34580	27			-		144										
		STD	0500		185	3460	27		00020	58	0151	144	85									
		085	0500	) ~(	185	34604	27	88				144	485									
		STD	0600		185	3462		89	00019	18	0171	145	01									
		085	0600		185	34615	27					145										
		STD	0700		196	3463		90	00016	86	0189	145										
		085	0700		196	34632	27					145										
		OBS STD	0744		201	34640 3465	27	92	00014	50	0205	145										
		085	080		200	34652	27		00014	צע	0205	145										
		OBS	0888		193	34680	27					145										
		STD	0900		196	3468		95	00011	77	0218	145										
		OBS	0900		196	34684		95				145										
		STD	1000		186	3472		97	00009	01	0228	145										
		OBS	1000	) -(	186	34720	27	97				145	570									
		OBS	1080	) -(	180	34750	28	00				145	586									

REFERENCE CTAY ID. CODE NO.	SHIP	LATITUI		AGITUDE STORY	SOUARE	STATION TI	YEA	R C	RUISE	ATOR'S STATION NUMBER		DEPTH TO BOTTOM	DEPTH OF S'MPL'	ORSE	WAVE RVATIONS	WEA- THER CODE	CLDUD		51	NODC TATION UMBER	
318085	61	7650	25 04	1/10		03 01 C	25 19	69	00			0515	05	1 1	0 X	X1	7 1		_	0009	
1 310003	1001	, 0,00	23   3 +	033.41 1	WA		IND	BARO-	AIR TE	MP. °C	VIS	NO.	SPE	CIAL	•	=				00021	
					COLOR	TRANS. DIR.		A ETER (mbs)	BULB	BULB	CODE	OBS. DEPTHS	DBSER1	ZHOITAV							
						15	\$16	947	-149	-153	8	11									_
	MESSENG	CAST	CARD	DEPTH (m)	1 °C	s */	SIG MA-		PECIFIC VOLU	JME 5	AN. M.		DCITY	0 2 ml/l	PO4-P pg + 61/1	TDTAL-P ug = al/l	NO2-N yg - a1/l	NO3-N NO - at/l	\$1 D4-\$i 29 - a1/1	pН	S
	HR 1/10			<u></u>				+		+	x 10 <sup>3</sup>	-			7, 5, 1, 1	7,	2,	pg = do t			$\mathcal{H}$
	ŀ	1	STD	0000	-0177	3439	2771	١,	000397	9 0	000		402	828	1			· · · · ·		_	1 1
	03	1	OBS STD	0000 0010	-0177 -0180	34394 3438	2771 2769		000408	19 0	004		402 402	828 814	185		011	255	060	770	
	03	1	OBS	0013	-0181	34373	2769					14	402	813	191		8 00	264	061	780	
	03	1	STD OBS	0020 0023	-0183 -0184	3439 34392	2770 2771	,	000398	13 0	800		403 403	816 817	189		007	264	061	783	
			STD	0030	-0183	3440	2771		000393	31 0	012		404	817	104		000	25.0	043	702	
	03	1	OBS STD	0048 0050	-0181 -0182	34406 3441	2772 2772		000381	4 0	020		408 408	800 792	194		800	258	062	782	
	03	1	OBS	0074	0197	34469	2777		000333		029	1.6	611	729 729	221		005	268	064	778	
			STD	0075 0100	-0187 -0190	3447 3452	2777 2781		000332 000294		1037		411	731							
	03	1	085	0100	-0190	34517	2781		000276		044		414	731	212		003	294	063	778	
			STD STD	0125 0150	-0190 -0190	3454 3456	2783 2784		0 <b>0</b> 0276 000259		050	14	419 423	725 719							
	03	1	OBS	T0151 0200	-0190 -0193	34560 3459	2784 2787		000231	5 0	063		423 431	719 719	217		001	297	066	779	
	03	1	STD OBS	T0204	-0193	34596	2787		000231		000		431	719	214		000	292	064	778	
			STD STD	0250 0300	-0197 -0201									719 720							
	03	1	OBS	0309	-0202									720	224		000	294	064	780	
	03	1	STD OBS	0400 T0412	-0199 -0198									722 722	230		000	296	064	779	
			STD	0500	-0194									715					-		
	03	1	OBS	T0513	-0193									713	212		007	295	065	781	
REFERENCE	т- т			- K	14 / DEDEN	STATION TI	44.6		ORIGII	2'SOTAP		Destu	MAX		WAVE	WEA-	CLOUD		1	wone	
REFERENCE CTAY ID.	SHIP	LATITU		NGITUDE SOUTION	'AA RSDEN SOU ARE	STATION TI		AR C	RUISE	NATOR'S		DEPTH 10 80110M	DEPTI	H OBS	WAVE ERVATIONS	WEA- THER CODE	CODES		S	NODC TATION TUMBER	
CTAY ID.	CODE	•	1/10	1710	SOU ARE	MO DAY H	8.1/10	-	RUISE NO.	STATION		10 80110 <i>N</i>	OF S'MPL	OBS OBS	HGT PER SE	THER CODE	TYPE AM		S	TATION	
CTAY ID.	CODE	7716	1/10	1710	500 ARE 10° 1° 556 72	MO DAY H	R.1/10 .45 19	69 BARO-	NO. OC	STATION NUMBER	VIS,	0510 NO.	DEPTI OF S'MPL O5	OBS OIR OO ECIAL	ERVATIONS	THER	CODES		S	TATION	
CTAY ID.	CODE	•	1/10	1710	10° 1° 556 72	MO DAY H	R.1/10 .45 19	69	NO.	STATION NUMBER	vis,	0510 NO.	OF S'MPL OF SP	OBS DIR.	HGT PER SE	THER CODE	TYPE AM		S	TATION	
CTAY ID.	GL	7716	1/10	1710	10° 1° 556 72  WA COLOR	MO DAY H	45 19 100 00 00 00 00 00 00 00 00 00 00 00 00	69 BARO-	AIR 1E	TATION NUMBER  7  FMP. 'C  WET  BULB	vis,	0510 NO. ORS.	OF S'MPL OF SP	OBS OIR OO ECIAL	HGT PER SE	THER CODE	TYPE AM		S	TATION	
CTAY ID.	GL MESSENG TIME	7716	1/10	1710	10° 1° 556 72  WA COLOR	MO DAY H	45 19 100 00 00 00 00 00 00 00 00 00 00 00 00	69 BARO- METER (mbs)	AIR TE DRY BULB	STATION NUMBER  7  FMP. *C  WET BULB  -167	VIS.	0510 0510 NO. ORS. DEPTHS	OF S'MPL OF SP	OBS OIR OO ECIAL	HGT PER SE	THER CODE	CODES	NO3-N	S1 O4-S1	OO10	NOU
CTAY ID.	GL	7716	1/10 OS 04	2383W	10° 1° 556 72  WA COLOR CODE	MO DAY H 03 01 1 TER V TRANS DIR.	R.1/10 45 19 /IND SPEED / FORCE S30	69 BARO- METER (mbs)	AIR 18 DRY BULB -165 PECIFIC VOL	STATION NUMBER  7  FMP. *C  WET BULB  -167	vis,	0510 0510 NO. ORS. DEPTHS	OF STAPL	OBS OIR OO ECIAL VATIONS	PO4-P	THER CODE	CODES		S	OO10	7000
CTAY ID.	GL MESSENG TIME	7716	1/10 OS 04	DEPTH (m)	10° 1° 556 72  WA COLOR CODE	MO DAY H 03 01 1 TER V TRANS DIR.	R.1/10 45 19 /IND SPEED / FORCE S30	69 BARO- METER (mbs)	AIR 18 DRY BULB -165 PECIFIC VOL	STATION NUMBER  7  FMP. *C  WET BULB  -167	VIS.	0510 0510 NO. ORS. DEPTHS	OF STAPL	OBS OIR OO ECIAL VATIONS	PO4-P	THER CODE	CODES	NO3-N	S1 O4-S1	OO10	NO0
CTAY ID.	GL MESSENG TIME	7716	CARD TYPE  STD OBS	DEPTH (m)	SOUARE 10° 1° 556 72 WA COLOR CODE  1 ° C	MO DAY H 03 01 1 TER V TRANS DIR.	R.1/10 45 19 /IND SPEED / FORCE S30	69 BARO-METER (mbs) 937	AIR 18 DRY BULB -165 PECIFIC VOL	STATION NUMBER  7  FMP. *C  WET BULB  -167	VIS.	0510 0510 NO. ORS. DEPTHS	OF STAPL	01S 01R 00 00 00 00 00 00 00 00 00 00 00 00 00	PO4-P	THER CODE	CODES	NO3-N	S1 O4-S1	OO10	\$ C C
CTAY ID.	MESSENG TIME HR 1/10	7716	CARD TYPE  STD OBS STD OBS	DEPTH (m)  0000 0000 0010 0015	SOUARE 10° 1° 556 72  COLOR CODE  1 ° C  -0188 -0188 -0188	MO DAY H 03 01 1 1ER V 1	R.1/10 45 199 VIND SPEED FORCE S30 SIGMA- 2790	69 BARO-METER (mbs) 937	RUISE NO.  OC AIR 18 DRY BULB  -165  PECIFIC VOL ANDMALT-2	STATION NUMBER  O 7  MP. C  WET BULB  -167	VIS.	10 80110M 0510 NO. 085. DEPTHS 11	DEPTI OF S'MPL OF S'MPL OF S'MPL OF SER	O2 ml/l  751 751 751	PO4-P	THER CODE	NO2-N	NO3-N yg - at/l	SI O 4 SI pg - ol/I	OO10	\$ C C
CTAY ID.	MESSENG TIME HR 1/10	7716	CARD TYPE  STD OBS STD	DEPTH (m)  0000 0000 0010	SOUARE 10° 1° 1° 556 72 WA COLOR CODE 1° 1° 1° 1° 1° 1° 1° 1° 1° 1° 1° 1° 1°	MO DAY H 03 01 1 1ER V 1RANS DIR. 13 5 %.	R.1/10 45 19 190 190 190 190 190 190 190 190 190 1	69 BARO-METER (mbs) 937	AIR 18 DRY BULB -165 PECIFIC VOL	STATION NUMBER  O 7  MP. C  WET BULB  -167	VIS.	10 80110M 0510 085. DEFITHS 11 SO VEL	DEPTI OF S'MPL O 5 SP OBSER	01S OIR	PO4-P	THER CODE	010	NO3-N ye-al/l	SI 04-Si pg-01/1	0010 pH	S C C
CTAY ID.	MESSENG TIME HR 1/10	7716	CARD TYPE  STD OBS STD OBS STD OBS STD OBS	DEFTIM (m)  0000 0000 0015 0020 0030	SOUARE 10° 1° 1556 72 WA COLOR CODE 10° 1° 1° 1° 1° 1° 1° 1° 1° 1° 1° 1° 1° 1°	MO DAY H 03 01 1 1ER V 1EANS DIR. 13 5 -4. 34630 34437 3444 3444 34444	8.7/10 45 199 900 900 900 900 900 900 900 900 900	8ARO-METER (mbs) 937	AIR THE PRESENCE OF THE PRESEN	STATION NUMBER  O 7  EMP. 'C  WET BULB  -167  DUME 50107	VIS.	10 80110W 0510 005. 005. 005. 005. 11 14	DEPTI OF S'MPL OF S'MPL OF S'MPL OF SP OBSER OBSER OF SP OBSER OF	O2 ml/l  751 751 751 751 750 747	PO4-P	THER CODE	010	NO3-N ye-al/l	SI 04-Si pg-01/1	0010 pH	S C C
CTAY ID.	MESSENG TIME HR 1/10	7716	CARD TYPE  STD OBS STD OBS STD STD STD	DEPTH (m)  0000 0000 0010 0015 0020 0030	SOUARE 10° 1° 1556 72 WA COLOR CODE 1° 1° 1° 1° 1° 1° 1° 1° 1° 1° 1° 1° 1°	MO DAY H 1003 01 11 11 11 11 11 11 11 11 11 11 11 11	8.1/10 45 19 100 100 100 100 100 100 100 100 100 1	8ARO-METER (mbs) 937	AR THE DRY BULB -165	STATION NUMBER  O 7  EMP. 'C  WET BULB  -167  DUME 50107	VIS.	10 80110W 0510 0510 NO. ORS. DEPTHS 11 14 14 14 14 14	DEPTI OF S'MPL OF S'MPL OF S'MPL OF SP OBSER OF SP OBS	751 751 750 750 751 751 751	PO4-P μg - αι/ι 2 0 9 2 18	THER CODE	NO2-N 19-01/1	NO3-N yg-di/I 287 286	SI 04-SI pg - ol/l	761	S C C
CTAY ID.	MESSENG TIME HR 1/10	7716	CARD TYPE  STD OBS STD	DEFTH (m)  O000 O000 O015 O020 O030 O055 O075	SOUARE 10° 1° 1556 72 WA COLOR CODE 10° 10° 10° 10° 10° 10° 10° 10° 10° 10°	MO DAY H 03 01 1 18R v 18m p 18m p 18m p 13 5 - 4.  3463Q 34437 3444 3444 3444 34447 3447	8.1/10 45 199 1NO 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100 00 1 199 100	69 BARO-WETER (mbs) 937	AIR THE PRESENCE OF THE PRESEN	STATION NUMBER  0.7  MP. C  WEF. C  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007  1007	VIS.	10 80110W 0510 NO. 085. DEPTHS 11 14 14 14 14 14 14	DEPTI   OF	O2 ml/l  751 751 751 751 751 757 747 747 737	PO4-P	THER CODE	NO2-N 90-01/1	287 286 297	SI O4-SI pg - ol/l	761 779 782	
CTAY ID.	MESSENG TIME HR 1/10	7716	CARD TYPE  SID OBS SID OBS SID OBS SID OBS SID OBS	OCO	SOUARE 10° 1° 556 72 WA COLOR	MO DAY H 03 01 1 1ER v 10m1 DIR. 13 3463Q 34437 3444 3444 3444 3444 3447 3449 3449	8.1/10 45 199 180 199 180 2790 2774 2775 2775 2777 2777 2777 2777 2778	69 MARO-METER (mbs) 937	AIR 11  DRY BULB  -165  PECIFIC VOL ANOMALY-3	STATION NUMBER  OT  MP. C  WET BULB  167  JAME  388  337	VIS.	05100MOO.085.00EFTHS	DEPTI OF SYMPL OF SYM	O2 ml/l  751 751 751 750 747 747 737	PO <sub>4</sub> -P μα - αι/1  209 218	THER CODE	NO2-N 199 - al/1	NO <sub>3</sub> -N yg - at/l 287 286	SI O4-Si pg - o1/I	761 779	
CTAY ID.	MESSENG TIME HR 1/10	7716	CARD TYPE  SID OBS	0000 0000 0010 0015 0020 0030 0050 0055 0075 0080 0100 T0105	SOUARE 10° 1° 1556 72 WA COLOR CODE 10° 10° 10° 10° 10° 10° 10° 10° 10° 10°	MO DAY H 03 01 1 18R v 18m p 18m p 18m p 13 3463Q 34437 3444 3444 3444 3444 3444 3444 3	8.1/10 45 19.1/10 45 19.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5.1/10 5	69 MARO-METER (mbs) 937	OCC ARR 11 PRY BULB P	STATION NUMBER   STAT	VIS.	10 50 0 0 10 0 0 10 0 0 10 0 0 10 0 0 10 0 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 1	DEPTI OF SYMPLE	O2 ml/l  O2 ml/l  751 751 751 751 751 757 747 747 735 731 730 723	PO4-P	THER CODE	NO2-N 190 - 01/1	287 286 297	SI O4-51 pg - o1/1  065  064  065  065	761 779 780 780	
CTAY ID.	GL   MASSENGE   TIME   HR 1/10   15   15   15   15   15   15   15	7716  **CAST NO.   7	CARD TYPE  STD OBS STD	OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCOU OCO OCO	-0188 -0188 -0188 -0188 -0188 -0188 -0189 -0189 -0189 -0189 -0189 -0191 -0192 -0192 -0191 -0192 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191	MO DAY H  03 01 1  188 v  18m	8.1/10 45 199 45 199 1800 2790 2774 2775 2775 2777 2777 2777 2778 2783 2784 2784 2784	69 8ARO-METER (mbs) 937	OO 358	STATION NUMBER   TOTAL   TOT	VIS.	10 510 MO. 005.0 DEPTHS 11 SOO VEL 14 14 14 14 14 14 14 14 14 14 14 14 14	DEPTI OF SYMPL OF SYM	751 751 751 751 751 751 751 751 752 735 735 735 732 722 724	PO <sub>4</sub> -P μα-αι/ι  209 218 201 223 222	THER CODE	NO <sub>2</sub> -N / γ <sub>0</sub> - α// 1  010 008 008 007 006 001	287 286 297 291 297 300	S10 <sub>4</sub> -S10 <sub>4</sub> -S10 <sub>1</sub> S10 <sub>4</sub> -S10 <sub>4</sub> S10 <sub>4</sub> -S1	761 779 782 780 780	
CTAY ID.	MESSENG TIME HR 1/10	7716  **CAST NO.   7	CARD OS 04	0000 0000 0010 0015 0020 0050 0055 0075 0080 0100 70105 0125 0150	-0188 -0188 -0188 -0187 -0187 -0187 -0188 -0188 -0187 -0187 -0189 -0189 -0192 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191 -0191	MO DAY H  03 01 1  18R V  18m DIR.  3463Q  34437  3444  3444  3444  3444  3444  3444  3444  3445  3447  3449  3455  3456  3456	8.1/10 45 19.1/10 45 19.1/10 530 530 51GMA- 2790 2774 2775 2775 2775 2777 2779 2783 2784 2784 2784 2785	69 BARCOMETER (mbs) 937	O00358 000358 000358 000358 000358 000358	STATION NUMBER  70 MP. TC WET BULB  167  808  888  337  599  503	VIS.	10 5 1 0 0 5 1 0 0 0 5 1 0 0 0 5 1 0 0 0 5 1 0 0 0 0	DEPTI OF	O2 ml/l  751 751 751 751 751 757 747 747 737 737 737 727 724 726 727	PO4-P μα-αι/ι  209 218 201 223	THER CODE	NO2-N 190 - 01/1	287 286 297 291	SI O4-51 pg - o1/1  065  064  065  065	761 779 780 780	
CTAY ID.	GL   MASSENGE   TIME   HR 1/10   15   15   15   15   15   15   15	7716  ** CAST NO. 37 NO. 37 NO. 77  77  77  77	CARD OS 04	0000 0000 0010 0015 0020 0030 0055 0075 0075 0105 0125 0150 0156 0200	T T T T T T T T T T T T T T T T T T T	MO DAY H  03 01 1  188 v  18m v  18m s  3463Q  34437  3444  3444  3444  3447  3449  3454  3456  34562  3457  3457	\$1710 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190 \$190	69 RARO-METER (Imba) 937	000358 000358 000358 000358 000358 000276 000258	STATION NUMBER 70 AMP. TC WEST BUILB 167 167 167 167 167 167 167 167 167 167	VIS.	10 0 5 1 0 0 5 1 0 0 0 5 1 0 0 0 5 1 0 0 0 5 1 0 0 0 5 1 0 0 0 5 1 0 0 0 5 1 0 0 0 5 1 0 0 0 5 1 0 0 0 5 1 0 0 0 0	DEPTY OF SYMPL OF SYM	751 751 751 751 751 751 751 751 751 752 737 737 737 737 737 737 737 737 737 73	PO <sub>4</sub> -P μα-αι/ι  209 218 201 223 222	THER CODE	NO <sub>2</sub> -N / γ <sub>0</sub> - α// 1  010 008 008 007 006 001	287 286 297 291 297 300	S10 <sub>4</sub> -S10 <sub>4</sub> -S10 <sub>1</sub> S10 <sub>4</sub> -S10 <sub>4</sub> S10 <sub>4</sub> -S1	761 779 782 780 780	
CTAY ID.	MESSENG   TIME	7716  ** CAST NO. 37 NO. 37 NO. 77  77  77  77	1/10	0000 0000 0010 0015 0020 0030 0030 0055 0075 0080 0100 70105 0125 0156 0200 0207 0250	-0188 -0188 -0188 -0188 -0188 -0188 -0188 -0189 -0189 -0189 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199	MO DAY H  03 01 1  18R V  18m DIR.  3463Q  34437  3444  3444  3444  3444  3444  3444  3445  3449  3456  3456  3456  3456  3457  3457  3467	2790 2774 2775 2777 2777 2777 2777 2778 2784 2785 2786 2786 27786 27786 27786 27787	669 BARO-METER (Imbal) 937	OO 0358 000358 000358 000358 000358 000358 000358	STATION NUMBER 70 MP. 12 WET 1 BULB 167 167 167 167 167 167 167 167 167 167	VIS.	10 0 5 1 0 0 0 5 1 0 0 0 5 1 0 0 0 5 1 0 0 0 5 1 0 0 0 5 1 0 0 0 5 1 0 0 0 5 1 0 0 0 5 1 0 0 0 5 1 0 0 0 0	DEFTY OF SYMPLE	751 751 751 751 751 757 747 747 737 737 737 737 737 737 737 73	PO4-P 209 218 201 223 222 215	THER CODE	NO2-N 1776 AM 5 7	287 286 297 291 297 300	SI Qa-51   SI Qa-51   SI Qa-51   SI Qa-51   SI Qa-51   SI Qa-51   SI Qa-61	761 779 780 780 781	
CTAY ID.	MESSENG   TIME	7716  ** CAST NO. 3 T NO. 7  7  7  7	1/10   OS   O4	0000 0000 0010 0015 0020 0030 0055 0075 0075 0105 0125 0150 0156 0200 0207 0250 0300 70300 70300	T T T T T T T T T T T T T T T T T T T	MO DAY H  O3 O1 1  TER V  TEM: DIL  3463Q  34437  3444  3444  3447  3449  3454  3456  3456  3456  3457  3463  3467  3463	2790 2774 2775 2777 2777 2777 2777 2778 2783 2784 2784 2786 2796 2794 2794 2794	69 BARO-METER (mba) 937	000358 000358 000358 000359 000359 000258 000258	77 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	VIS.	10 0 5 1 0 0 5 1 0 0 0 5 1 0 0 0 5 1 0 0 0 5 1 0 0 0 5 1 0 0 0 5 1 0 0 0 5 1 0 0 0 5 1 0 0 0 5 1 0 0 0 5 1 0 0 0 0	DEFTY OF SYMPL OF SYM	751 751 751 751 751 751 751 751 751 751	PO4-P 209 218 201 223 222 215	THER CODE	NO2-N 1776 AM 5 7	287 286 297 291 297 300	SI Qa-51   SI Qa-51   SI Qa-51   SI Qa-51   SI Qa-51   SI Qa-51   SI Qa-61	761 779 780 780 781	
CTAY ID.	GC	7716  ***CASST NO.  7 7 7 7 7 7 7	1/10	OCO	-0188 -0188 -0188 -0188 -0188 -0188 -0188 -0189 -0189 -0189 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199	MO DAY H  O3 O1 1  IER V  IEM DIR.  3463Q  34437  3444  3444  3444  3444  3444  3446  3447  3449  3456  3456  3456  3456  3457  3457  3467  34681  3470	2790 2774 2775 2777 2777 2777 2779 2783 2784 2785 2786 2796 2794 2796 2794 2796	699 669 669 669 669 669 669 669 669 669	OO 0358 000358 000358 000358 000358 000358 000358	77 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	VIS.	10 0 5 1 0 0 5 1 0 0 0 5 1 0 0 0 5 1 0 0 0 5 1 0 0 0 5 1 0 0 0 5 1 0 0 0 5 1 0 0 0 5 1 0 0 0 5 1 0 0 0 5 1 0 0 0 0	DEFTI OF SYMPL OF SYM	751 751 751 751 751 751 751 751 752 747 747 747 737 737 722 724 726 727 718 719	PO <sub>4</sub> -P μ <sub>9</sub> -α// 209 218 201 223 222 215 224 208	THER CODE	NO <sub>2</sub> -N   AM   5   7   7   7   7   7   7   7   7   7	287 286 297 291 297 300 298 300	S1 O <sub>4</sub> -5:   S1	761 779 782 780 780 781 783	
CTAY ID.	GL   M4554M6   GL   M4554M6   M554M6   M554M6	7716  ** CASST OF NO.   7777  7777  7777  7777	1/10   OS   O4	0000 0000 0000 0010 0015 0020 0030 0055 0075 0075 0105 0125 0150 0156 0200 0207 0250 0300 0300 0300 0400	-0188 -0188 -0188 -0188 -0188 -0189 -0199 -0199 -0199 -0199 -0199 -0198 -0198 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0198 -0198 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199 -0199	3463Q  34437 3444 3444 34447 3444 34447 3449 3454 3456 3456 3456 3456 3456 3456 3456	2790 2774 2775 2777 2777 2777 2777 2777 2777	699 BARO-METER (mbail 937 7 1 5 C C C C C C C C C C C C C C C C C C	000358 000358 000358 000359 000359 000258 000258	STATION   NUMBER	VIS.	14 14 14 14 14 14 14 14 14 14 14 14 14 1	DEFTY OF SYMPLE	751 751 751 751 751 751 751 751 751 751	PO4-P   PO4-P	THER CODE	NO <sub>2</sub> -N   NO <sub></sub>	287 286 297 291 297 300 298 300	S1 O <sub>4</sub> -S1 O <sub>7</sub>   S1 O <sub>8</sub> -S1 O <sub>8</sub>   S1 O <sub>8</sub> -S1 O <sub>8</sub>	761 779 782 780 780 781 783	
CTAY ID.	GC	7716  ** CASST OF NO.   7777  7777  7777  7777	CARD TYPE  STD OBS	0000 0000 0010 0015 0020 0030 0055 0075 0080 0100 70105 0125 0120 0200 0207 0207 0207 0207 0207 0207	SOUARE   10°   1°   556   72   WA   COLOR COLOR COLOR   COLOR COLOR   COLOR COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR   COLOR	MO DAY H  03 01 11  18R V  18m DIR.  3463Q  34437  3444  3444  3447  3447  34494  3455  3456  3456  3456  3457  34680  34680	2790 2774 2775 2777 2777 2777 2777 2777 2777	699 BARO-METER (mbail 937 7 1 5 C C C C C C C C C C C C C C C C C C	000358 000358 000358 000358 000358 000358 000258 000258 000138	STATION   NUMBER	VIS.	14 14 14 14 14 14 14 14 14 14 14 14 14 1	DEFTY OF SYMPL OF SYM	751 751 751 751 751 751 751 751 751 751	PO <sub>4</sub> -P μ <sub>9</sub> -α// 209 218 201 223 222 215 224 208	THER CODE	NO <sub>2</sub> -N   AM   5   7   7   7   7   7   7   7   7   7	287 286 297 291 297 300 298 300	S1 O <sub>4</sub> -S1 O <sub>7</sub>   S1 O <sub>8</sub> -S1 O <sub>8</sub>   S1 O <sub>8</sub> -S1 O <sub>8</sub>	761 779 782 780 780 781 783	

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ERENCE	SNIP	LATITUD	E LO	NGITUOE DO	SOU	SOEN	TATION TI	ME .	YEAR	ORIGINATO CRUISE STAT		GEP TO	) lothi	OBS	WAVE ERVATIONS	WEA-	CLOUG			NODC
ID,	COOE	•	/10	1/10 03	10°	1"	MO DAY H	1/10		NO. NUA	BER	8011	OM S'MPL	'S DIR.	HGT PER SE	CODE	TYPE AMT			UMBER
18085	GL	77385	5 04	2278W	556				969	008		058	35 06	00	0   x	X7	5   7			0011
						COLOR		SPEED	BARC	AIR TEMP.	VIS	CI OR	5. 0.000	ECIAL VATIONS						
						CODE	JRLD ZHART	FORCE	(mbs	i nous n	JEB COL	DEPT	INS OHISEK	VAIIONS						
							15	519	93	1 -138 -1	40 5	12	2						,	
	MESSENGR	CAST	CARD	OFFTH (m)		τ.	5 %.	SIGM	I-A	SPECIFIC VOLUME	₹ A C	Ž	SOUND	02 ml/l	PO4=P	TOTAL-P	NO2-N	NO3-N	SI OA-S	
	HR 1/10	NO.	TYPE	000000						ANDMALT-X10	X 10 <sup>3</sup>		VELOCITY		µg - α1/l	μg = α1/1	ן/ום - פע	ا/۱۵ - وبر	yg - 08/	<u>'</u>
		1													1					
	074		STD	0000		189	35620	287	00					.815 815	199		800	289	065	753
	076	5	STD	0010		189	JJ020	201	0.0					746	• • • •		000		002	,,,,
	076	5	085	0010		189	34430	277	40					746	169		010	288	064	779
			STD	0020		188	3440	277	, ,	0003860			14402	746 746						
	076	4	STD	0030		187	34404	277		0003660			14402	746	203		010	283	063	782
	070	,	STD	0050	-0	189	3441	277	2	0003804			14405	746					-	
	076	5	OBS	0056		190	34410	277		0003768			14405	746 745	208		009	286	065	785
	076	6	STD	0075 0081		188	3441	277		0005768			14410	744	209		009	288	064	785
	0		STO	0100		187	3446	277	6	0003386			14415	733	-		•			
			STD	0125		188	3451	278		0002986			14419	723	214		002	201	0/5	70/
	076	6	OBS STD	0132 0150		188	34517 3454	278		0002736			14421 14423	721 719	216		003	291	065	784
	0.7	6	085	0182		192	34566	278					14428	717	207		000	294	065	788
			SID	0200		192	3457	278		0002470			14431	719						
	0.7	4	S <b>T</b> D 0BS	0250 0283		193	3459 34598	278 278		0002285			14439	723 724	205		000	293	064	789
	07	0	STD	0300		197	3461	278		0002089			14446	723	200		000	-//	004	, , ,
	07	6	OBS	T0383		211	34635	279					14453	721	212		000	295	066	789
	07	,	STD	0400 T0483		211	3464 34649	279		0001754			14456 14469	721 722	213		000	299	068	784
	071	Ь	STD	0500		214	3465	279		0001605			14472	720	217		000	2,,	000	104
	07	6	OBS	T0546		215	34659	279					14479	719	219		001	297	068	782
	07	6	obs	T0574	-c	203	34683	279	15				14489	721	226		002	294	067	783
ERENCE	SHIP	LATITUC	E LO	NGITUDE E	sou	SOEN I	TATION TI	M.E	YEAR	DRIGINAT		DEI	DEPT		WAVE ERVATIONS	WEA-	CLOUD			NODC
ID.	COOE		1/10	NGITUDE 1/10	10*	1*	MO JOAY H			CRUISE STA		BOT		'S DIR.	HGT PER SE	0000	TYPE AM			NUMBER
1808	GL	77542	5 0	45133W	556	75	03 03 2	35 1	969	009		02	50 0	2 00	0 x	X7	5 8			0012
						WA	T	SPEED	BAR		VI	S. NI		ECIAL						
						COOE	TRANS. DIR.	OR	Lmb:		VET CD	OEP	THS ORSER	VATIONS						
							00	500	97	3 -106 -1	11 5	0	9							
	MESSENG	TCAST	CARO	DEPTH (m)		r 10	5 %.	SIGM	A - Y	SPECIFIC VOLUME	₹ Δ I	2	SOUND	02 ml/l	PO4=P	FOTAL-P	NO2-N	NO3-N	5104-5	
	MESSENGI TIME HR 1/10	T NO. 1	TYPE	Der 111 0			"	31070		ANDMALT-1107	x 10	)	VELOCITY	02	μg - 01/l	νg - el/l	μg - at/i	µg − a1/1	yg - at/	1 "
		1					1								}					
	23	1	STD	0000		188	3450 34498	277		0003154	000		14398 14398	730 730	211		007	294	065	760
	23	1	STD	0010		188	3449	277		0003210	000		14400	729	211		007	277	067	, 00
	23	1	OBS	0016	-0	188	34487	277	8				14401	729	221		007	295	065	780
			STD	0020		188	3449 3449	277		0003226	000		14401	732 737						
	23	1	STD	0030		189	3449	277		0003218	001		14403	738	223		013	291	064	785
			STD	0050	-C	189	3448	277	8	0003229	001	6	14406	744						
	23	1	085	0056		189	34483	277		00000	005		14407	746	222		007	292	067	782
	23	1	STD OBS	0075 0081		191	3449 34497	277		0003162	002		14409	734 733	217		008	293	065	781
	2.5		STD	0100		191	3450	277		0003095	003	2	14414	739	,		000		000	
	23	1	085	0106		190	34497	277					14415	740	213		800	295	065	784
			STD	0125 0150		)190 )190	3450 3450	278		0003057	004		14418	739 738						
			310	0170	(	7 /0	7470	210		3003042	004		14423	737	222		007	294		

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34505

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REFERENCE CTET 10.	SNIP	LATITUE	08 1.00	ACITUDE #2	A/ RSOEN SQUARE	TATION TIN	ME YEAR	ORIGINATO	ION .	OEPTH TO	MAX. OEPTN OF	OBSE	VAVE RVATIONS	WEA- THER	CLOUG		S1	NOOC TATION TUMBER	
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CTET 10.	COOL	7710	1/10	1/10 E S		MO DAT NO	TEAR	ORIGINATO CRUISE STAT NO. NUA	TON ABER	OEPTH TO BOTTOM	OF S'MPL'	OBSE S On.	O X		CLOUG COGES		5	NODC STATION NUMBER	
CTET ID.	COOL		1/10	1/10 5 %	16° 1° 555 78	1GMT	17EAR 105 1969	CRUISE STAT	NON ABER	10 10110M 0645	OFFTH OF S'MPL' OB	00 SE	EVATIONS	THER	COOLS		5	STATION !	
CTET ID.	COOL	•	1/10	1/10 5 %	16° 1° 555 78	IGMTI MO   QAT   NI 0 3   0 5   2 E8   W  18ANL   DB.	US 1969 UNO BAR INFO OR FORCE	CRUISE STATE NUMBER OF STATE N	TON ABER	NO. OEL DEPTHS	OFFTH OF S'MPL' OB	90 SE	HGI NE SE	THER	TTPL AM		5	STATION	
CTET ID.	GL COOL	7710	1/10	1/10 5 %	10" 1" 555 78 WAT	MO   DAT   NI 03 05 2	1969	CRUISE STATE NUMBER OF STATE N	TON ASER	NO. OSL. DEPTHS	OFFTH OF S'MPL' OB	00 SE	HGI NE SE	THER	TTPL AM		5	STATION	<b>T</b>
CTET ID.	COOE S GL	7710	1/10	1/10 5 %	10" 1" 555 78 WAT	IGMTI MO   QAT   NI 0 3   0 5   2 E8   W  18ANL   DB.	US 1969 UNO BAR INFO OR FORCE	CRUISE STATE NUMBER OF STATE N	TON ASER  VET CODE  VET CO	NO. DEPTHS	OFFTH OF S'MPL' OB	00 SE	HGI NE SE	THER	TTPL AM	NO <sub>2</sub> -N µg + e1/1	5	OO14	2000
CTET ID.	COOR S	7710	25 03	1/18 E E	SQUARE  18° 1°  555 78  WAT  COLOR COOE	1GMT) MO 0AY NI 03 05 2 E8 W 1RANL DR.	TEAR 105 1969 (NO EAR 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910 1910	CEUISE STAIN NUM O 011 CO- AM TEMP. FER ORY WAS RULE RI 21 -116 - I	TON ASER	NO. DEPTHS	OBSERV	OBSE OR. OO CIAL VARIONS	PO4=P	X7	COOES	NO <sub>2</sub> -N	\$104-51	OO14	14 CC
CTET ID.	GL MESSENGE TIME 1/10	7710	CARO TIPE	9/18 8 4 0 8 W DEPTH IN1	SQUARE 16° 1° 555 78 COLOR COOR 1 ° COLOR COOR 1 ° COLOR COOR	1GMT) MO 0AT NI 03 05 2 FEB W 1RANL DIL. 3 */.	1764 TEAR LI/10 TEAR L	CEUISE STAIN NUM O 011 CO- AM TEMP. FER ORY WAS RULE RI 21 -116 - I	TON ASER  VET CODE  VET CO	NO. OSE DEPTHS	OBSERVING	00 00 00 00 00 00 00 00 00 00 00 00 00	PO4=P	X7	NO2-N	NO <sub>2</sub> =N µg + e1/i	\$1 O4-51	OO 14	S C C C
CTET ID.	COOR S GL MASSEMECE TAME 1/10	7710	CARO TYPE	* 1/18 8 4 0 8 W	\$QUARE  16" 1"  5.55 78  WAT  COLDR COOE	IGMT) MO OAT NI 03 05 2 FEB W TEANL DIL. 01	LI/10  OS 1969  IMO SAN MET ON	CRUISE NO. NUM O 11 O- AM IEMP. FER ORY WHIST RULE RI 21 -116 -1 SPECIFIC VOLUME ANOMALY-ZIE?	TON ABER  TET COORDINATE COORDINA	15 SOUVELCE	OBSERA OBSERA	OBSE OR OO	PO4=P	X7	COOES	NO <sub>2</sub> -N	\$104-51	OO14	S C C
CTET ID.	GL MESSENGE TIME 1/10	7710	CARO TIPE  STD OBS STO OBS	0000 0010 0010	SQUARE 18" 1" 555 78 WAT COLOR COOE  7 T -0185 -0185 -0186	1GMT MO OAT NI O3 O5 2 W 1EAN DE . O1 S	1969 1969 1969 1969 1960 1960 1960 1960	CRUSE STATE MO. NUM. NUM. NUM. NUM. NUM. NUM. NUM. NUM	TON ASER  VI. (ET COOK JUB COOK 22 5  \$ \( \triangle \tr	15 SOUVELO	OBSERVING OFFI	00 CCIAL VATIONS 796 796 793 793	PO4=P	X7	NO2-N	NO <sub>2</sub> =N µg + e1/i	\$1 O4-51	OO 14	200
CTET ID.	COOR S GL MASSEMECE TAME 1/10	7710	CARO TIPE  STD OBS STD OBS STD OBS	0000 0010 0020 0025	500'AEF  10" 1" 555 78  WAT  COLOR COOF  1 T C  -0185 -0186 -0186 -0186	16M1 MO 3 O 5 2 EEB W 11M1 DR.	THAR THAR STATE OF THAT STATE	CRUISE STAT MOLA MOLA MOLA MOLA MOLA MOLA MOLA MOLA	VT. VTL. (/51 CODE JUL 8 CODE JU	15 SOUVELO	08 SPI OBSERV	796 793 793 793 793	PO4-P pe - 41/1	X7	NO2-N 98 - 61/1	NO <sub>2</sub> -N µg + et/l 249	\$1 Oa-\$1 ye - at/1	OO14	500
CTET ID.	MESSINGE TIME IN THE 1710	7710	CARO TITE  STD OBS STD OBS STD	0000 0010 0020	SQUARE  18" 1" 555 78  WAT  COLOR COO!  T T  -0185 -0185 -0186 -0186	IGMTI MO GAT NII 03 05 2 IEB W ILANI DIR. 1 01 5 %. 3431 3431 34312 3430 34296 3431	1969 1969 1960 1960 1960 1960 1960 1960	CRUSE STATE MO. NUM. NUM. NUM. NUM. NUM. NUM. NUM. NUM	VIL	15 SOUTH 14 14 14 14 14 14 14 14 14 14 14 14 14	08 SPI OBSERV	796 796 793 793 793 793	PO4=P P0 - 41/1	X7	NO2=N re - 41/1	NO <sub>2</sub> -N pg + et/1 249	\$1 O <sub>4</sub> —\$2 pp · ot//	0014 0014	- CCC
CTET ID.	MESSINGE TIME IN THE 1710	7710	CARO TIPE  STD OBS STD OBS STD OBS STD OBS STD OBS	0000 0010 0025 0030 0051	T C WAT COLOR COOF COOF COOF COOF COOF COOF COOF CO	GMT MO GAY NO O3 O5 2 CEE US TAME DE O1 S - /	TAR	CRUISE STAT MOLA  OLI  OLI  OLI  OLI  OLI  OLI  OLI	TON MEER VIL. VIL. VIL. VIL. VIL. VIL. VIL. VIL.	15 SOUVELCE 14 14 14 14 14 14 14 14 14 14 14 14 14	08 SPT OBSERV 397 397 398 398 400 1402 407 407	796 793 793 793 792 790 781	PO4=P P0 - 41/1	X7	NO2=N re - 41/1	NO <sub>2</sub> -N pg + et/1 249	\$1 O <sub>4</sub> —\$2 pp · ot//	0014 0014	200
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CTET ID.	Metshees Ne 1/10  199 199 199	7710	CARO TITE  STD OBS	0000 0010 0020 0050 0051 0075 0076 0100	T T COLOR COOF COOF COOF COOF COOF COOF COOF CO	3431 3431 3431 3431 3431 3431 3431 3431	TAR	CRUISE STAT MOLA  OLI  OLI  OLI  OLI  OLI  OLI  OLI	TON MEER VIL. VIL. VIL. VIL. VIL. VIL. VIL. VIL.	0645 NO. OSL OPTIMS 15 SOURCE 14 14 14 14 14 14 14 14 14 14 14 14	OBSERT 1 08 SPINOCHTY 397 397 398 400 401 402 407 409 414	796 796 796 793 793 793 792 790 780 780 779 738	FO <sub>4</sub> =F 20 X FO <sub>4</sub> =F 20 - 01/1 175 173 181 188 193	X7	NO2-N 98 - 86/1	NO <sub>2</sub> -N y <sub>9</sub> -el/i 249 246 236 272 278	Si Oa-Si yo · ot// 059 059 061 061	793 792 775	2000
CTET ID.	MISSING NE 1/10  199 199	7710	CARD TIPE  STD OBS STD	0000 0000 0010 0020 0020 0050 0051 0075	T T COLOR COOF WAT COOF WAT COLOR COOF WAT COOF WAT COLOR COOF WAT	3431 3431 3431 3431 3431 3431 3431 3431	TAR LIVIS 1969 1969 1960 1960 1960 1960 1960 1960	CRUISE STATE MOLE NO.	© VTL (FET COLOR OF	To	OBSERT 1 397 398 400 401 402 407 409 409	02 ml/l  796 796 793 793 793 792 790 781 780 779	FO <sub>4</sub> -P po - 4/7	X7	NO2-N FE - EL/I	NO <sub>2</sub> -N pg + el/l 249 24e 236	SI Oa-Si so - ot// 059 059 061	793 792 789	200
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CTET ID.	Metshees Ne 1/10  199 199 199	7710	CARD TIPE  STD OBS STD	0000 0000 0010 0010 0025 0030 0051 0075 0076 0100 0125 0100 01100 0125 0150	T T COLOR COOK COOK COOK COOK COOK COOK COOK CO	3431 3431 3431 3431 3431 3431 3431 3431	TARE LIVID 1969  NO 5 1969  NO 6 1969  SIGMA-1  2764 2764 2763 2764 2765 2769 2770 2776 2776 2776 2776 2776 2778 2782 2782	CRUISE NO.	© vrt. vrt. vrt. vrt. vrt. vrt. vrt. vrt.	15 SOUTOM 14 14 14 14 14 14 14 14 14 14 14 14 14	OBSERT 1997 1997 1997 1997 1997 1997 1997 199	796 796 793 793 793 793 793 793 793 793 793 793	FO <sub>4</sub> =F 20 X FO <sub>4</sub> =F 20 - 01/1 175 173 181 188 193	X7	NO2-N 98 - 86/1	NO <sub>2</sub> -N y <sub>9</sub> -el/i 249 246 236 272 278	Si Oa-Si yo · ot// 059 059 061 061	793 792 775	200
CTET ID.	Messames Mes	7710	CARD TIPE  STD OBS	0000 0000 0010 0020 0025 0030 0051 0075 0100 0100 0100 0100 0100 010	T T COLOR COOF WAT COOF WAT COLOR COOF WAT COOF WAT COLOR COOF WAT	3431 3431 3431 3431 3431 3431 3431 3431	TALE LIVE TO THE L	CRUISE STATE MOLE NO. 1	© VT. ret Cook 22 5  \$	14 14 14 14 14 14 14 14 14 14 14 14 14 1	OBSERVA OBSERV	796 796 796 793 793 793 792 790 781 780 781 780 781 780 779 738 738 738 738 7716 706	FO <sub>4</sub> =P  203	X7	NO2-N re- vi// 007 007 007 007 007	NO <sub>3</sub> -N y <sub>3</sub> -el/l 249 248 236 272 278 293	059 061 062 064	793 792 775 789	200
CTET ID.	MISSIMPE TIME 1/10  199 199 199 199 199	7710	CARD TIPE  STD OBS STD	0000 0000 0010 0010 0020 0051 0075 0076 0100 0125 0150 0153 0200 T0204 0250 0300	T T COLOR COOF WAT CO	3431 3431 34312 3431 34312 3430 3439 3431 34314 3431 34314 3433 3437 3436 3436 3446 3459 3453 3453 3453	TAR LIVING	CRUISE NO.	© vrt. vrt. vrt. vrt. vrt. vrt. vrt. vrt.	16 to	088 SPR 088 SP	796 796 796 793 793 793 793 790 781 780 779 738 726 717 716	PO4=P 20-01/1 181 188 193 203 201	X7	NO2-N   NO2-	NO3-N pg-el/l 249 248 236 272 278 293	510 <sub>4</sub> -55 90 - 607 059 061 061 062 064	793 792 775 789 786	200
CTET ID.	MISSEMPER 199 199 199 199 199 199 199 199 199 19	7710	CARD TIPE  STD OBS	0000 0000 0010 0020 0051 0075 0100 0105 0150 0150 0150 015	COUNTY TO THE PROPERTY OF THE	1641 MO   0AT     0   0   0   0   0   0   0   0   0	SIGMA-I   SIGM	CRUISE STATE MOLE  OLT WILLIAM TEMP.  FEE ORT WILLIAM REST RULE RULE REST RULE REST RULE RULE RULE RULE RULE RULE RULE RULE	© VT. (15 COOK)  22 5  \$ ∆ ∆ ○ VT. (16 COOK)  22 5  \$ ∆ ∆ ○ VT. (16 COOK)  0000  0005  0009  0014  0022  0033  0042  0050  0071  0084  0096	15 SOUTH STATE STA	085 SMR. 08 SM	796 796 796 793 793 793 793 792 790 781 780 781 780 779 738 738 738 738 717 716 705 711 717	PO4=P 20-01/1 181 188 193 203 201	X7	NO2-N   NO2-	NO3-N pg-el/l 249 248 236 272 278 293	510 <sub>4</sub> -55 90 - 607 059 061 061 062 064	793 792 775 789 786	
CTET ID.	MISSIMPE TIME 1/10  199 199 199 199 199	7710	CARD TIPE  STD OBS STD	0000 0000 0010 0010 0020 0051 0075 0076 0100 0125 0150 0153 0200 T0204 0250 0300	-0185 -0185 -0185 -0186 -0186 -0186 -0186 -0188 -0188 -0189 -0189 -0189 -0189 -0189 -0189 -0189 -0189 -0189 -0189 -0189 -0189 -0189 -0189 -0189 -0189	3431 34312 3430 34313 34312 3430 34313 34313 34313 34313 34313 34313 34313 34313 34313 34313 34313 34313 34313 34313 34313 34313 34313 34313 34313	SIGMA-1	CRUISE NO.	© VT. (*E1 COOR COOR COOR COOR COOR COOR COOR COO	14 14 14 14 14 14 14 14 14 14 14 14 14 1	085 SME	796 796 793 793 793 793 793 793 793 793 793 797 780 779 738 726 717 716 706 706 707	175 173 181 188 193 203 201	X7	NO3-N   NO3-	249 246 236 272 278 293 296	\$10,-\$5 90 - 41/1 059 061 061 062 064 059	793 792 775 789 780 786 789	200
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CTET ID.	MISSIMPE TO THE TOTAL TO THE TO	7710	CARD	0000 0000 0010 0010 0025 0030 0051 0076 0100 10153 0200 10250 0307 0410 0500 10410 0500 10511 0600 0614 0700 10714	T T COLOR COOF COOF COOF COOF COOF COOF COOF CO	3431 34312 3431 34312 3430 34313 34312 3430 34296 3431 34314 34313 34314 3437 3436 3446 3459 3453 3453 34545 34545 34545 34545 34545 34545 34545 34545 34545 34545 34545 34545 34545 34545 34545 34545 34545 34545 34545 34545 34545 34545 34545 34545 34545 34545 34545 34545 34545 34545 34545 34545 34545 34545 34545 34545 34545 34545 34545 34545 34545 34566 34666	SIGMA-1   SIGM	CRUISE STAIN MON.  CRUISE STAIN MON.  AM TEMP.  FR. ORT WILLIAM  OOU A STAIN MON.  O	CYPE (**ET**)  **C **C **ET**  **C **C **C **C **C **C **C **C **C	15 South 14 14 14 14 14 14 14 14 14 14 14 14 14	OBSERVE OBSERV	796 796 793 793 793 793 793 793 793 793 793 791 780 779 738 726 706 706 707 718 711 711 718 711 711 711 711 711	175 173 181 188 193 203 201 205 199 196 205	X7	NO2-N   NO3-N   NO3-	249 248 236 272 278 293 296 299 294 292	059 059 061 062 064 065 065	793 792 775 789 786 787 786 789	#00 m
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THY ID.	SNIP	LATITE	n QE		GITUDE	DCTR	'A / RS DEF	7	STATION TIL	ME	YEAR	CRUISE		TATION		DEPTH TO	DEPTH OF	OBS	WAVE ERVATIONS	WEA- THER	CFOND		S1	ODC
18085		7718	1/10		1/10 423W	-	10' 1	_	MO DAY HE		1969	NO.	01.	U MBER	-	1024	S'MPL'		HGT PER SE	X4	5 8	1	_	0015
10002	GL	1 //10	ا ددد	051	7228	1 1		WAT		IND	BARG	0	AIR TEA		VIS	NO.	-	CIAL	0 1 1	^4	1 > 10	1	1	0017
							co	LOR	TRANS. OIR.	SPEED OR FORC	METE	ER I	DRY ULB	WET	COOK	OBS. OEPTHS		VATIONS						
									18	513		9 -1	57	-159	8	14								
	MESSEN TIME HR 1/		CAF		DEPTH	(m)	T *C		s */	ŞIG	MA-T	SPECIFIC	C VOLU	ME O	∆ 0 YN. M x 10 <sup>3</sup>	SOL	OCITY	O2 ml/I	PO4-P ug = 01/1	TDTAL-P ug - el/l	NO2=N ug - 01/I	NO3-N pg - 01/I	\$1 O4-\$i pg - o1/1	рН
			S	TD	000	0	-018	7	3440	27	71	000	390	2 0	000	14	398	780						
	19	94	0B:		000		-018 -018		34401 3434	27	71 67	000	433	6 0	004		398 399	780 792	184		007	267	063	779
	19	94	08	S	001	0	-018	6	34344	27	67					14	399	792	183		006	266	063	789
	19	94	QB:	TD S	002	0	-018 -018		3434 34342		67 67	000	1434	7 0	008		401 401	785 785	186		007	268	063	79(
	1	94	0B:	TD S	003		-019 -019		3434 34338		67	000	1434	3 0	013		400 400	765 764	191		007	269	063	790
			S	T D	005	0	-018	15	3434	27	66	000	435	1 0	022	14	406	786			_			
	13	94	0 B:	5 TD	T005		-018 -019		34339 3442		66 73	000	370	2 0	032		407 409	789 755	194		007	274	062	790
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	_		S	TD	012	5	-019 -019	6	3453 3455	27	82		281		047		416 420	724 729						
	1	94	08	TD S	T016	3	-019	6	34553	27	84					14	422	731	202		001	293	066	77
				TD TD	020		-019		3457 3458		85		)246 )236		1067 1079		430 439	729 727						
	1	94	0B	S TD	026		-019 -019		34586 3459		87 87	000	226	0 0	091		443	726 723	209		001	293	066	78
	1	94	QB.	S	T037	4	-019	12	34599	27	88					14	460	720	204		001	293	065	78
	1	94	0 B	TD S	040		-019 -019		3460 34612		88	000	211	1 0	1112		463 474	722 724	205		001	291	064	78
	1	94	0B	T D	050		-019 -019		3462 34625		90	000	193	4 0	133		479 496	723 718	212		000	292	065	78
	•	, ,	S	TD	060	0	-019	4	3463	27	90		176		151	14	497	718			000	-/-	003	, ,
	1	94	S QB	TD S	070 T078		-020 -021		3463 34644		90	000	166	4 0	168		509 520	716 714	215		001	295	068	78
				TD TD	080		-02I -020		3465 3468		92		143		184		524 542	714 711						
	1	94	08	S	T099	16	-020	)6	34700	27	96				_	14	559	709	213		001	299	070	78
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RENCE ID.	SHIP	LATIT		LON	GITUDE	DAUFT	'AZ RSDE SQUARE		STATION TI	WE	YEAR	CRUISI	E :	ATOR'S		DEPTH TO BOTTOM	DEPTI	H OBS	WAVE SERVATIONS	WEA- THER CODE	CLOUG		S	NDDC TATION IUMBEI
10. NO.	GL	775	1/10 02S	035	329	1	10°	1	03 07 C	8.1/10	1969	NO.	01	NUMBER 3		0347	S'MPL	_	O X	x 1	TYPE AM	1		001
		'						WAT		IN D	BAR	U	AIR TE	MP. C	VIS.	NO.		ECIAL						
							C	DDE	TRANS. OIR.	FORC	E (mb	al	BULB	BULB	-	DEFTHS	OBSER	VATIONS						
		-						_	18	510	79		208	-211		11			1					
	HR 1/	OF NO.	G.A. TY		OEPTH	(m1	t to	:	s ·/.	SIG	MA-T		VALY-X	ME C	X 10 <sup>3</sup>	VEL	OCITY	0 2 ml/l	PO4-P µg - al/l	10TAL-P 49 - 01/1	NO2-N ug = at/I	NO3-N	\$1 O4-\$1	pН
	1		! .	TD	000	10	-018	17	3457	27	85	000	1258	8 0	000	14	400	738			1		1	
		75	08	S	000	0	-018	37	34572	27	85	000	, 2 ) 0	0 0	,000	14	400	738	208		009	289	067	78
	0	75	0B \$	S TD	000		-018		34420 3440		73	000	390	8 0	003		399 400	736 745	205		006	288	066	79
	0	75	OB		001	4	-018 -018	34	34386 3438	27	70		0405		007	14	401	751 749	209		007	287	066	79
		7.6	S	TD	003	30	-018	36	3437	27	69		412		011	14	403	745	22.2		207	202	047	7.5
		75		TD	004	0	-018 -018	37	34365 3437	27	68	000	414	0 0	020	14	404 406	742 737	211		007	283	067	75
	0	75	0B 5	S TD	006		-018		34367 3437		69	noc	)412	7 0	030		408	735 739	214		005	290	067	79
	0	75	08	S	009	2	-018	35	34365	27	68					14	413	744	214		007	290	067	75
			S	T D T D	010	25	-018	34	3437 3437	27	68 68		0412 0410		040 051	14	415 419	742 738						
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REFERENCE CIRY IO. CODE NO.	SHIP	LATITU	OE LO	NGITUDE EOG	'A / RS	ARE	ST.	ATION 1		YEA	R	CRUISE NO.	RIGINA ST N	TATION UMBER		OEPT TO BOTTO	2	MAX, DEPTH OF S*MPL*!	000		VE TIONS PER SEA	WEA- THER CODE	CO	DUD		51	NODC FATION UMBER
318085	3L	7750	25 03	5329W	555		03		085	196	59		013			034	7	03	00	0	x	×1	0	3			0017
						COLDR	TER	$\rightarrow$	D NIW	FD: LA	ARO.		RY TEM	WET	VIS.	NO 085	S	SPE	CIAL /ATIONS								
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				Τ		DT	SI	0 18	SI	0 1	791			-211	_	14	•			-							
	MESSENGR	or NO.	CARO TYPE	DEPTH (m)	T	°C		s */	SI	G M A -1	t	SPECIFIC		AE 0	∆ 0 YN. M. X 10 <sup>3</sup>	.   ,	SOUN SOUN		0 2 ml/l		04-P	101AL-P 1/10 - gu	NO2		NO3-N yg - ot/l	\$1 O4-\$1 9 - a1/1	рН
	HR 1/10						+		+-		+			+		+-								$\dashv$			
	ı	1 1	STD	0000	_	188		427		761	- 1	000	4899	∍ ˈo	000		43							,	,		
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			OBS	0010	-0	188	3	4280	2	762						1	143	97									
	000	,	STD 08S	0020		187		429 4289		762 762		000	+750	0	010		143 143										
	000	,	OBS	0025	-0	187	3	4289	2	762						1	144	00									
			STD	0030		187 187		429 4289		762 762		000	+74:	3 0	014		144 144										
			STD	0050		187	3	429		762		000	4723	3 0	024	1	144	04									
			OBS STD	0050 0075		187 187		4290 429		762 762		000	470	7 0	036		l 44 l 44										
			085	0075	-0	187	3	4290	2	762						1	144	80									
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			STD	0200 0200		186		429 4293		763 763		000	460	7 0	094		l 44 l 44										
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REFERENCE CTRY IQ.	SHIP	LATITU	08S	DALT STORTION	'4/R SOU	186	3		Z		A.R	CRUISE	5	ATOR'S		OEP	144	MAX. DEPTH OF	08		ATIONS	WEA	CC	OUO		5	NODC TATION
CTRY IO.	CODE	•	08S	NGITUDE INDCE	'4/ R SOU	SDEN ARE	3 :T	ATION IGMT	TIME	764 VEA	_	-	S.	TATION		OEP T( BOTT	144 O M	MAX. DEPTH OF S'MPL'	S DIR.	SERVA	PER SE	COO	TYPE	DOES		S	TATION
CTRY IO.	CODE	17722	08S	DALT STORTION	'4/R SOU	SDEN ARE	3 :T MO 03	4309	Z TIME	764 YEA	69	CRUISE NO.	5	TATION		OEP	144 0 0 70	MAX. DEPTH OF S'MPL'	S DIR.	SERVA	PER SE	THER	TYPE	2300		S	TATION
CTRY IO.	CODE	•	08S	NGITUDE INDCE	'4/ R SOU	SDEN FARE	3 :T MO 03	ATION IGMT	140 WIND	764 YEA	_	CRUISE NO.	Ol4	TATION	VIS.	0 6 P T C BOTT	70	MAX. DEPTH OF S'MPL'	S DIR.	SERVA	PER SE	COO	TYPE	DOES		S	TATION
CTRY IO.	CODE	•	08S	NGITUDE INDCE	'4/ R SOU	SDEN PARE 17 74 WAT COLOR	MO 03	ATION IGMT	TIME  HR,1/1  140  WIND  SPE OF FOR	YEA 0 196	69 BARO	CRUISE NO.	O 14	TATION IUMBER 4 AP. °C	VIS.	OEP TC BOTT	70 0, 5, 1HS	MAX. DEPTH OF S'MPL'	OB:	SERVA	PER SE	COO	TYPE	DOES		S	TATION
CTRY IO.	GL	7722	08S	1/10 A 292W	10°	SDEN PARE 17 74 WAT COLOR	MO 03	ATION IGMT.  DAY  07	2 THME   HR,1/1 1 40 WIND   SPE OF FOIL SO	764 YEA 0 196 RCt 1	69 AETEI (mba)	R C B1	O 14 IR TEA	TATION TO MBER  AP. C WET RULE  -116	vis.	OEPT TO OB OEPT 1 (	70 0, 5, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	MAX. DEPTH OF S'MPL' O4 SPE OBSERV	S DIR. OO ECIAL VATIONS	MGT O	PER SE	X7	TYPE 7	8		S	TATION IUMBER OO 18
CTRY IO.	GL	7722	08S	NGITUDE INDCE	10°	SDEN FARE TO THE WAT COLOR COOL	MO 03	ATION IG MT	2 THME   HR,1/1 1 40 WIND   SPE OF FOIL SO	YEA 0 196	69 AETEI (mba)	CRUISE NO.	O 14 IR TEA	TATION IUMBER  4  AP. °C  WET BULB	VIS.	OEPT TO OB OEPT 1 (	70 0, 5, 1145	MAX. DEPTH OF S'MPL' O4 SPE OBSERV	OB:	SERVA HGT O	PER SEA	X7	TYPE 7	DOES AMT	NO3-N NO3-N	S	TATION
CTRY IO.	G L MESSENGE TIME	7722	OBS OS OS OS OS	DINGITUDE 1900 M 1910 M	10° 555	SDEN PARE TO THE COLOR COOL	MO 03 TER	ATION IGATION	2 2 3 4 0 1 1 1 4 0 1 1 1 4 0 1 1 1 1 4 0 1 1 1 1	764 YEA 0 196 RCt	69 AETEI (mba)	CRUISE NO.	O 14 IR TEA	TATION IUMBER	VIS. CODI	OEPT TO BOTT BOTT TO B	70 70 70 80 80 80	MAX. DEPTH OF S'MPL' O4 SPE OBSERV	OB: S DIR. OO ECIAL VATIONS	MGT O	ATIONS PER SEA	X7	7 NO:	DOES AMT		\$1 O4-\$i	TATION IUMBER OO 18
CTRY IO.	G L MESSENGE TIME	7722	08S	1/10 A 292W	10° 555	SDEN FARE TO THE WAT COLOR COOL	MO O3 TER	ATION IGMT.  DAY  07	2 2 3 4 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	764 YEA 0 196 RCt 1	69 AETEI (mba)	R C B1	O 14 IR TEA	TATION IUMBER	VIS. CDDI	OEPT 100 OEPT 1100 OEPT 11	70 0, 5, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	MAXX. DEPTHOOF SYMPLY  O4  SPECOBSERY	S DIR. OO ECIAL VATIONS	SERVA MGT O	ATIONS PER SEA	X7	7 NO:	8 8		\$1 O4-\$i	TATION IUMBER OO 18
CTRY IO.	MESSENGE TIME HR 1/10	7722	CARO TYPE  STD O8S STD	DEPTH (m)  0000 0010	10° 5555	186   SOEN	3 TER TRAIN (m)	4309  ATION I IGMT.  DAY  07  07  21  5 *4.	2 2 2 2 2 2 2 2	764 198 198 198 198 198 198 198 198 198 198	69 AETEI (mba)	CRUISE NO.	014 IR TEA IR TEA IR TEA IR TEA IR TEA IR TEA IR TEA	TATION UMBER	VIS. CODI	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	70 D. SOUPVELOC	MAX. DEPTH OF OFSTMPLY  SPECIAL SPECIA	08: DIR. 000 ECIAL VATIONS 02 ml//	MGT O	04-P = = = 1/1	X7	7 NO:	B S S S S S S S S S S S S S S S S S S S	μg - α1/I 267	SI 04-Si µg - at/I	TATION IUMBER 0018
CTRY IO.	GL MESSENGE TIME HR 1/10	7722	OBS  OE LO 1/10  OS O3  CARO TYPE  STD OBS	DEPTH (m)	"A/R SOU 10" 5555	TALE WAS COOKE COOKE 183	3 MO 03 TER TRAIN (mm	4309  ATION IGMT IGMT 07  07  21  5 *4.	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	764 YEA 0 196 196 196 196 196 196 196 196 196 196	69 AETEI (mba)	CRUISE NO.	014 IR TEA PRY JUB 15 VOLUMALY—X10	TATION UMBER	VIS. CODI	OEP TO SEPTION OF THE TOTAL OF	70 00 00 00 00 00 00 00 00 00 00 00 00 0	MAX. DEPTH OF OF SS'MPL' O4 SPE	OBECIAL VATIONS	MGT O	ATIONS PER SEA X O4-P 3 - at/1	X7	7 NO:	B S S S S S S S S S S S S S S S S S S S	μg - α1/I	SI O4+Si μg - α1/I	OO18
CTRY IO.	MESSENGE TIME HR 1/10	7722	CARO TYPE  CARO TYPE  STD OBS STD OBS STD STD	DEPTH (m)  O000 0010 0010 0020 0030	-00 -00 -00 -00	186   SOEN   1	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	4309  ATION IGMT IGMT 07  21  5 *4.  421 4212 425 428	2 2 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	764  YEA  196  196  1756  7756  7756  7759	69 AETEI (mba)	CRUISE NO.	014 O14 IR TEA IRY JLB VOLUMALY—X16 536: 536:	TATION UMBER 4 AP. *C WET BULL -116	VIS. CODI	OEPT 10 03 06 06 06 07 11 (	144 17H 00 00 00 70 143 143 143 143 144 144	MAXX DEPTH OF OF SYMPL'  O4 SPECOBSERV  NO CITY  197 198 198 100 101	02 ml/ 772 774 759 749	MGT O	04-P 2-1/1	X7	NO:	8 8 8 2 2 N 8 1	267 270	SI 04-Si µg - al/I 061	788
CTRY IO.	MESSENGE TIME HR 1/10	7722	OBS  OE LO 1/10 OS O3  CARO TYPE  STD OBS STD OBS STD	DEPTH (m)  0000 0010 0010	-0 -0 -0 -0 -0 -0 -0 -0 -0 -0 -0 -0 -0 -	186  SDEN   19   19   19   19   19   19   19   1	3 TER TRAIN (mm	ATION IGMT.  DAY   07   21   5 *4.	2 2 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	764  YEA  196  196  1756  7756  7756  7756	69 AETEI (mba)	CRUISE NO.	014 IR TEA IR TEA IR TEA IR TEA IR TEA VOLUM ALY—X16 536.	44 44 44 44 44 44 44 44 44 44 44 44 44	VIS. CODD	OEPT 10 03 06 06 06 06 06 06 06 06 06 06 06 06 06	144 700000000000000000000000000000000000	MAX. DEPTH OF OF SYMPL'  O4  SPECIFY  197  198  98  001  02	00 DIR. 00 DIR	MGT O	04-P = = = 1/1	X7	7 NO:	8 8 8 2 2 N 8 1	μg - α1/I 267	SI 04-Si µg - at/I	TATION IUMBER 0018
CTRY IO.	MESSENGE TIME HR 1/10	7722	OBS OS	DEPTH (m)  O000 0010 0020 0030 0036 0050 0061	-00 -00 -00 -00 -00 -00 -00	186 SOEN 74 74 WAN COLOR COOF 183 183 183 183 183 186 186	3 TER TRAIN (mm) 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	4309  ATION IGMT IGMT 07  21  5 *4.  421 4212 421 4212 428 428 4288 4288	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	764  YEA  196  196  1756  756  756  756  756  756  756  7	69 AETEI (mba)	CRUISE NO.	\$\frac{\sqrt{\text{NN}}}{\text{N}} IF TEWN PAY JUB   VOLUM   VOL	WET RULE 116 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137	VIS. CODDI CODDI VIS. CODDI VIS. CODDI	OEPT 10 0 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	70 SSUPPLOCE SOUP VELOCE 143 143 144 144 144 144 144 144 144 144	MAXX. DEPTH OF SPECIAL	02 ml// 772 774 774 759 749 753	HGT O	04-P 2-1/1	X7	NO:	22-N el/s	267 270	SI 04-Si µg - al/I 061	788
CTRY IO.	MESSENGE TIME HR 1/10	7722	OBS  OE LO 1/10  OS O3  CARO TYPE  STD OBS STD OBS STD OBS STD OBS STD OBS STD STD OBS STD OBS STD	DEPTH (m)  0000 0000 0010 0020 0030 0036	-00 -00 -00 -00 -00 -00 -00 -00 -00 -00	186  SOEN 174  74  183 183 183 183 183 185 186 187	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	ATION IGMT  DAY  07  21  5 *4.  421 4212 421 4212 425 4286 4286	2 2 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	764  YEA  198  198  198  756  756  756  756  756  762  762	69 AETEI (mba)	CRUISE NO.	\$\frac{\sqrt{\text{NN}}}{\text{N}} IF TEWN PAY JUB   VOLUM   VOL	WET RULE 116 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137 137	VIS. CODI 7 7 E \( \triangle \trian	OEPT 10 OEPT 1	144 770 70 70 143 143 143 144 144 144 144	MAXX. DEPTHOF OF STMPLY  SPECIAL SPECI	772 774 774 759 746 753	HGT O	04-P 9- 11/1	X7	CC   TYPE   7   7   7   7   7   7   7   7   7	8 8 8 1 1 2 2 N 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	267 270 284	SIO4-Si pg-oi/I 061 062	788 791 758
CTRY IO.	MESSENGE TIME HR 1/10	7722	OBS OS	DEPTH (m)  OCOU  OCO  OCO  OCO  OCO  OCO  OCO  O	-00 -00 -00 -00 -00 -00 -00 -00 -00 -00	186  SOEN   12   17   18   18   18   18   18   18   18	3 3 3 3 3 3 3 3 3 3 3 3 3 3	4309  ATION IGMT  DAY   07   21   5 * 4.	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	764  YEA  196  196  196  756  756  756  756  756  762  762  76	69 METER (Imba)	CRUISE NO	\$\frac{\sqrt{\sqrt{\text{NN}}}}{\sqrt{\text{NN}}} \rightarrows \frac{\sqrt{\text{NN}}}{\text{NN}} \rightarrows \frac{\text{NN}}{\text{NN}} \rightarrows \t	######################################	VIS. CODDI VIS. C	OEP TO SOLUTION OF THE TOTAL OF	70 O SOUTH SO O SOUTH SO O O O O O O O O O O O O O O O O O O	MAX. DEPTH OF	772 774 774 759 749 753 754 744 738	NGT O I	04-P X 1990 1899	X7	01 01 01	8 8 8 1 1 2 2 N 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	267 270 284 284	SI O4-Si pg - oi/I  061 062 065	788 791 758
CTRY IO.	MESSENGE TIME HR 1/10	7722	OBS  OE LO 1/10  OS O3  CARO TYPE  STD OBS STD OBS STD OBS STD OBS STD OBS	DEPTH (m)  0000 0000 0010 0020 0030 0030 0050 0061 0075 0087	-00 -00 -00 -00 -00 -00 -00 -00 -00 -00	186  SOEN   1	3 MO O3 TER TRAIN (m) 3 3 3 3 3 3 3 3 3 3 3 3 3	4309  ATION IGMT  DAY  07  21  5 *4.  421 4212 421 4212 425 428 428 428 428 429 4299	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	764  YEA  196  196  1756  7756  7756  7756  7756  7756  7756  7756  7756  7756  7756  7756  7756  7756  7756  7756  7756	69 METER (Imba)	CRUISE NO	\$\frac{\sqrt{\sqrt{\text{NN}}}}{\sqrt{\text{NN}}} \rightarrows \frac{\sqrt{\text{NN}}}{\text{NN}} \rightarrows \frac{\text{NN}}{\text{NN}} \rightarrows \t	######################################	VIS. CODDI 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	OEP TO 80 TO 10 OEP TO 10	70 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	MAX. DEPITH OF STAFFLY	02 ml/ 772 774 774 759 746 753 7544 738	NGT O I	04-P X 1990 1899	X7	01 01 01	22-N ol/i	267 270 284 284	SI O4-Si pg - oi/I  061 062 065	788 791 758
CTRY IO.	MCSSINGS   MCSSINGS	77722	OBS OS	DEPTH (m)  0000 0000 0010 0020 0036 0050 0061 0075 0087 0100 0125 T0136	-00 -00 -00 -00 -00 -00 -00 -00 -00 -00	186  SDEN 17 74  WAI COLORS 183 183 183 183 185 186 186 186 186 186 186 185 185	3 3 3 3 3 3 3 3 3 3 3 3 3 3	4309  ATION TIGMAT OF THE PROPERTY OF THE PROP	2 2 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	764  YEA  198  198  198  756  756  756  756  756  756  756  75	69 METER (Imba)	CRUISE NO	014 014 11R TEN 11ST TE	-116 -116 -116 -116 -116 -116 -116 -116	VIS. CODDI VIS. C	OEPT 10 3 NCC OEPT 11 (	770 770 770 770 770 770 770 770 770 770	MAX. DEPTH OF	772 774 759 749 749 749 749 749 749 749 749 749 74	1 1 1 2 2 2 2 2	PER 31.  X   1008   31.  X   1	X7	NO;   Pg -   O1   O1   O1   O1   O1	22-N ol/s l	267 270 284 284 288	SiO <sub>4</sub> -Si N  SiO <sub>4</sub> -SiO <sub>4</sub> -SiO <sub>4</sub> 961  962  965  966  966	788 791 758 789 790
CTRY IO.	MESSENGE TIME HR 1/10	77722	OBS  OE LO  1/10  OS O3  CARO 1776  STD OBS	DEPTH (m)  O000 0000 0010 0010 0020 0036 0050 0061 0075 0087 0100 0125 T0136 0150 T0191	-00 -00 -00 -00 -00 -00 -00 -00 -00 -00	186  SOEN 17 74  WAARE 17 74  WAARE 18 183 183 183 183 185 186 186 186 186 186 186 186 186 186 186	3 3 3 3 3 3 3 3 3 3 3 3 3 3	4309  ATION TO THE TOTAL	2 2 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	764  YEA  196  196  756  756  757  756  757  762  762  76	69 METER (Imba)	CRUISE NO	014 014 014 014 017 017 017 017 017 017 017 017	33 (	VIS. CODI 7 7 1000000000000000000000000000000000	OEPT 10 0 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	70 70 70 1143 1143 1144 1144 1144 1144 1144 114	MAX. DEPTH OF OF OF STAMPLY OF OF STAMPLY OF OF STAMPLY OF	772 774 759 746 738 739 741 742	1 1 1 2 2 2 2 2 2 2	PSR 51.1X  O4-P 1-1/1  190  189  213	X7	01 01 01 01	22-N ol/s l	267 270 284 284 288	SI O4-Si μq - σι/Ι 061 062 065 067	788 791 758 789
CTRY IO.	MESSING   HR 1/10   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   14	77722	OBS OS	DEPTH (m)  0000 0000 0010 0020 0036 0050 0061 0075 0087 0100 0125 T0191 02200 0250	-00 -00 -00 -00 -00 -00 -00 -00 -00 -00	186  SDEN 17 74  WARE 17 74  WARE 17 74  WARE 17 74  WARE 17 183 183 183 183 183 185 186 186 186 186 185 186 187	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	4309  ATION IGAN IGAN IGAN ION ION ION ION ION ION ION ION ION IO	2 2 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	764  YEA  196  196  1756  7756  7756  7756  7756  7762  7762  7762  7762  7764  7764  7764	69 BAROO MAETEE (Imba)	CRUISE NO.	\$\frac{\capacitan}{\capacitan} \text{O14}{\capacitan} \text{O14}{\capacitan} \text{O14}{\capacitan} \text{O15}{\capacitan} \text{O26}{\capacitan} \text{O26}{\ca	WET	VIS. CODDING TO THE C	OEPT 10 03 NC OEPT 11 (10 NC OEPT)	70 70 143 143 1143 1144 1144 1144 1144 1144	MAX. DEPTH OF CONTROL	772 774 759 749 749 749 749 740 736 735 735 735 735 735 735 735 735 735 735	1 1 1 2 2 2 2 2 2 2	PER 51/4 X X X X X X X X X X X X X X X X X X X	X7	01 01 01 01 00	2 .1 .1 .1 .1 .0 0 8	267 270 284 284 288 287	S104-Si yg-ol/I 061 062 065 066	788 791 758 789 790 789
CTRY IO.	MCSSINGS   MCSSINGS	77722	OBS  OE 1/10  OS 03  CARO 1776  STD OBS	DEPTH (m)  0000 0010 0010 0020 0030 0036 0050 0061 0075 0087 0100 0125 T0136 T0191 0200 0250 0250	-00 -00 -00 -00 -00 -00 -00 -00 -00 -00	186   Total Property   Total Property	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	4309  ATION IGMT IGMT IGMT IGMT IGMT IGMT IGMT IGMT	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	764  YEA  196  196  756  756  756  756  756  762  762  76	69 BAROO MAETEE (Imba)	CRUISE NO	\$100 0 14 0 14 0 14 0 14 0 14 0 14 0 14	TATION BEFORE  WET RULE  -116 -55 -64 -69 -77 -77 -77 -77 -77 -77 -77 -77 -77 -7	VIS. CODO 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 6 P T T T T T T T T T T T T T T T T T T	70 0 south 43 144 44 144 144 144 144 144 144 144 1	MAXX DEPTH OF STAFF O	7722 7744 7744 7744 7744 7744 7744 7744	1 1 1 2 2 2 2 2 2 2 2 2	PER 31.  X   1008   31.  X   1	X7	NO;   Pg -   O1   O1   O1   O1   O1	2 .1 .1 .1 .1 .0 0 8	267 270 284 284 288	SiO <sub>4</sub> -Si N  SiO <sub>4</sub> -SiO <sub>4</sub> -SiO <sub>4</sub> 961  962  965  966  966	788 791 758 789 790
CTRY IO.	MESSING   HR 1/10   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   144   14	7722	OBS OS	DEPTH (m)  0000 0000 0010 0020 0036 0050 0061 0075 0087 0100 0125 T0191 02200 0250	-00-10-10-10-10-10-10-10-10-10-10-10-10-	186  SDEN 17 74  WARE 17 74  WARE 17 74  WARE 17 74  WARE 17 183 183 183 183 183 185 186 186 186 186 185 186 187	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	4309  ATION IGAN IGAN IGAN ION ION ION ION ION ION ION ION ION IO	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	764  YEA  196  196  1756  7756  7756  7756  7756  7762  7762  7762  7762  7764  7764  7764	69 8AROMETEI Imba 754	CRUISE NO	\$100 0 14 0 14 0 14 0 14 0 14 0 14 0 14	TATION BEFORE  WET RULE  -116 -55 -64 -69 -77 -77 -77 -77 -77 -77 -77 -77 -77 -7	VIS. CODDING TO THE C	OEPT 10 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	70 70 143 143 1143 1144 1144 1144 1144 1144	MAXX DEPTH OF THE PROPERTY OF	772 774 759 749 749 749 749 740 736 735 735 735 735 735 735 735 735 735 735	1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	PER 51/4 X X X X X X X X X X X X X X X X X X X	X7	01 01 01 01 00	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	267 270 284 284 288 287	S104-Si yg-ol/I 061 062 065 066	788 791 758 789 790 789

REFERENCE	SNIP	LATITUO		NGITUOE 3		SOEN	STATION	TIME	YEAR		NGINAT		4	OEPTN TO	OEPT	N Cas	WAVE ERVATIONS	WEA-	CLOUG			NOOC STATION	
CTAT 10.	COOE		1/10	1/10		1	MO OAY	HR_1/10		CRUISE NO.		MEER	1	OTTOM	S'MPL		HGT HE SE		TYPE AMI			NUMBER	
318085	GL	76529	5 03	2497W	555	62	03 08	055	1969		015		0	375	04	00	o x	X 7	X 9			0019	
						WA		SHE	- FAR	· —	IR TEMP			NO. ORS.		ECIAL							
						COLOR	TRANS OR	100			ULR I	WET CO	900	DEPTHS	OESER	ZHONS							
							22			3 -1	61 -	162 4	7	05									
	MISSENGE	CAU	CARO		Τ.		1	1			ADLAWI	₹ ∆	0	sou	INO		PO <sub>4</sub> -F	TOTAL-P	NO2-N	NO2-N	\$104-	<u>.</u>	12
	TUMB 4	NO.	TYPE	OEPTH (m)	'	70	1 1.4.	310	SMA-T	AHOM	ALT-BIO?	B 10	,M.	VELO	CHY	O1 ml/i	µg = 21/1	#g = e1/1	νη • αt/l	#2 + #t/l	μ <b>g</b> − σ1		18
																							$\sqcap$
			510	, 0000		177	3399		738	000	7113	000	0		396	808							
	063		OBS STD	0000 0010		177	33986 3397		738 737	000	7201	000	7		396 398	808	165		017	236	054	799	
	063		085	0010		176	33974		737	000					398	811	170		018	238	054	799	
			5TD	0020		175	3403		741		6766			144		806							
			STD	0030 0050		175	3408 3418		745 753		6378 5601	002			404	801 791							
	063		085	T0051		173	34184		753	300	7001	003	, ,		410	790	192		014	263	058	797	
	063		085	0346		186	34377		769						455	731	219		003	290	069	790	
	063		OBS	10372	-0	184	34389	2	770					144	461	727	220		004	293	069	789	•
REFTBENCE	SNIP			Ŀ	147	SDEN	STATION	TIME			RIGINA	tors	J	OEPTN	MA		WAVE	WEA-	Crono			NOOC	1
C187 10.	COOE	LATITUO	1/10	NGITUOR 1	10"	JARE	MO   OAY		TEAR	CRUISE NO.		TION		MOTTO	1	1 0	HGT HER SI	THER	TH AM	1	- 1	STATION	
318085	GL	76529		249TW	555			055	1969		015		1	375	04	-	o x	X7	0 3	1	_	0020	1
. 510005	, 52 ,	.0,2	, , ,		1,,,,		TED	WINO	BAR		AR TEMP	r. %	m.	NO.	_	CAL.	10171	1 ^1	1 013	1	'	0020	•
						COLO		- OI						ORS. DEPTNS		VATIONS							
						DT	50 22		-	_	61 -	162 4	-+	15									
	mf15fmG4	17.71	CARD		$\top$		1	<del>-</del> j		71-	VOLUM	<del></del>		500			T						TJ
	TIME #		TYPE	OEPTN Imi	1 '	7 10	1 %.	34	GMA-E		ALT-EIS?	SYN.	M. 03		CITY	01 =1/1	PO4=P #8 * 41/1	101AL-P	NO2-N	NO3-N	\$1 O4-		É
	11.0				+			$\neg$				1-		_								1-	$\forall$
		. '	STO	0000		178	3393		733	000	7542	000	00	14:	395	•	•					•	•
	050	)	065	0000		178	33930		733						395								
			STO	0010		178	3393		733 733	000	7535	000	0		397 397								
			STD	0020		181	3400	2	739	000	6983	001	15	14	398								
	000	)	085 085	0020 0025		181	34000	_	739						398								
			STD	0029		180	34071		744 747	000	6216	002	1 ?		400								
			065	0030	-0	178	34100	2	747	•••				14	402								
			STO	0050		171	3422		756	000	5338	003	3		411								
			OB5 STD	0050 0075		171	34219		756 761	000	4888	004	.6		411								
			OBS	0075	-0	182	34268		761	•••				14	410								
			STO	0100		185	3428		761	000	4788	005	8		413								
			08S 5TD	0100 0125		185	34278 3429		761 762	000	4670	007	70		413								
			085	0125		186	34291		762	•••		•	•		417								
			510	0150		186	3430		763	000	4570	008	31		421								
			08S 08S	0150 0176		186	34302 34310	_	763 764						421 427								
			5 TD	0200		187	3432	_	765	000	4398	010	)4		430								
			OBS	0200		187	34320		765						430								
			STD OBS	0250 0250		187	3433 34331		766 766	000	4282	012	25		438 438								
			STD	0300		187	3434		767	000	4167	014	.6		446								
			085	0300	-0	187	34342	2	767					14	446								
			085	0352	-0	187	34348	2	767					144	455								

	NIP LATITUD	E LO	NGITUDE 17/10	10" 1"	MO OAY	YEAR	CKUISE SIA	TION	TO DE	OF	WAVE ERVATIONS	WEA- THER CODE	CLOUO CODES		5	NODC TATION TUMBER
318085 G			1041W	555 41		056 196	9 016			5 00	0 X	X1	6 3	1	-	0021
	_ ,	- 1		' -		WINO BA	RO- AIR TEMP		NO.	SPECIAL	10 11	1 ~-	1 015	'	1	0021
				cor			TER ORY	WET COOL		ERVATIONS						
					21	TORCE		181 8	12							
MES	SENGR CALL	C 1RO		T .		<del>' </del>	SPECIFIC VOLUME	7	SOUND	<u>'</u>	PO4-P	70744		10 11		
	1/10 NO.	TYPE	DEPTH (m)	1 %	s	SIGMA-T	ANOMALY-1107	X 10 <sup>3</sup>	VELOCITY	0 2 ml/l	μg - α1/I	TDTAL-P ug - at/i	NO2-N	NO3-N yg - at/l	\$104-Si	PH C
·	056	STD	0000	-0170	3409 34089	2746	0006339	0000	14401							
	000	OBS STD	0010	-0170 -0168	3408	2746 2745	0006376	0006	14401		167		015	241	055	801
	056	OBS	0010	-0168	34084	2745			14404	793	173		014	243	054	798
	056	STD	0020 0025	-0168	3409 34085	2745	0006361	0013	14405	794 795	140		016	24.2	054	70/
	0 70	STO	0030	-0169		2748	0006086	0019	1440		168		015	243	054	796
	054	STD	0050	-0169		2756	0005305	0030	14412				t.			
	056	OBS STD	0051 0075	-0169 -0175	34223 3428	2757 2761	0004798	0043	14412		193		012	285	060	792
		STD	0100	-0182	3434	2767	0004299	0054	14416							
	056	OBS	T0102 0125	-0182 -0182	34348 3435	2767	0004330	0015	14416		206		800	293	065	790
	035	STD OBS	0146	-0181	34361	2767 2768	0004230	0065	14420		211		002		066	788
		STD	0150	-0181	3436	2768	0004109	0075	14425	727			002		000	, 00
		085 085	0152 0194	-0181 -0178	34366 34368	2768 2769			14425		200		000	296	067	786
	<b>Q J J</b>	STD	0200	-0174	3437	2769	0004053	0096	14436		205		002	294	068	786
	0.25	STD	0250	-0140	3438	2768	0004064	0116	1446	707						
	035	085 STD	0292	-0108	34405 3442	2771	0003863	0136	14485	695	203		000	295	076	786
	035	OBS	T0390	-0050	34540	2778	000000	0.200	14528		220		001	308	089	780
	035	STD OBS	0400 10494	-0019 0014	3457 34663	2779	0003143	0171	14545		221		2			
	ردن	STD	0500	0000	3466	2785 2785	0002568	0200	14577		231		002	312	103	779
	035	OBS	T0509	-0024	34645	2785			14562		229		002	309	099	780
HR	DE . 1 1 74400	/10	DEFTH (m)  DEFTH (m)  0000 0008 0010 0010 0020 0020 0025 0030 0030 0050	-0186 -0186 -0186 -0182 -0184 -0187 -0187 -0187 -0187 -0178	3402 3402 3402 34064 3406 3406 3421 34260 3428 3427 3428 3427 3428	## YEAR  ## (#R.1/10)  330 1 196  ## NO 3511 8  \$11 8  \$136MA-T  2741  2744  2744  2756  2761  2761  2761  2765	NO. NU 9 016 RO- AIR TEMP. TER DRY S BULS E	TION MBER	10 DEF	FF S DIR. 5 0 0 O SPECIAL NO SPEC	WAVE ERVATIONS HGT PER 58 O X  PO4-P ys - 01/1	WEATHER COOK X7	CLOUD CODES TYPL AM1 0 3	NO3-N yg - 01/1	N 2.	PADC (ATION UMBER OO 2 2
		STD OBS STD OBS	0075 0075 0100 0100 0125 0125 0150 0200 0200 0250 025	-0187 -0187 -0188 -0188 -0188 -0188 -0188 -0188 -0188 -0184 -0184	3434 34340 3435 34351 3436 34361 3437	2767 2767 2768 2768 2769 2769 2770 2770 2771	0004323 0004220 0004128 0004059 0003913 0003756	0049	14409 14409 14413 14413 14417 14417 14421 14421 14430 14440							

100	SHIP	LATITUE	SE LON	GITUDE BUTTE	M/ RSDEN SOUARE	STATION THE	YEAR	ORIGINATOR	ON .	TO OF	OBSE	WAVE RVATIONS	WEA- THER CDDE	CODES		51	ATION UMBER
CODE NO.	CODE	<u> </u>	1/10	1/10	10' 1'	03 09 1	45 1969	NO. NUMB	EK	620 06		O X	x 7	TYPE AM		_	0023
318085	GL	74187	75   032	2282W	555 42	ATER W	IND BAR	AIR TEMP. T		NO. SO	CIAL						
					CODE		OR Imbi	BULB BUI	18		ZHOITAV						
						27	504 92	-		12		PO <sub>4</sub> =P	TDTAL-P	NO2-N	NO3-N	Si O4-Si	
	MESSENGI TIME	Y NO.	C ARD TYPE	DEPTH (m)	7 ℃	s */	SIGMA-T	SPECIFIC VOLUME	₹ △ D DYN. M. x 10 <sup>3</sup>	VEFOCITA	O <sub>2</sub> ml/l	1/10 + gu	μg - e1/I	ng - at/1	μg - σ1/i	yg - 01/1	pH C
	HR 1/10								0000	14402	796			1	1	1	
	16	4	STD OBS	0000	-0167 -0167	3407 34071	2744 2744	0006484		14402	796	218		001	291	065	802
			STD	0010	-0170 -0170	3406 34061	2743 2743	0006547	0007	14402	794 794	235		001	294	068	801
	16	4	OBS STD	0020	-0170	3407	2744	0006510	0013	14404 14405	793 792	234		000	295	070	800
	16	4	OBS STD	T0027 0030	-0170 -0169	34068 3410	2744 2747	0006237	0019	14407	786	227		000			
	1.	,	STD	0050 T0052	-0165 -0165	3427 34278	2760 2761	0004931	0031	14414	751 748	229		001	299	080	771
	16	4	OBS STD	0075	-0173	3432	2765	0004512	0042	14415	735 725						
	16	.4	STD OBS	0100 0104	-0179 -0180		2768 2768	0004175		14418	724	261		003	316	110	792
	-	·	STD	0125 0150	-0181 -0183	3437 3437	2769 2769	0004077	0064	14421 14424	722 720						
	14	. 8	OBS	0171	-0184	34375	2769	0003949	0094	14427 14432	719 719	237		002	303	091	781
	16	4	STD OBS	0200 10210	-0183 -0183		2770 2770			14434	719	181		015	240	058	790
	14		STD	0250 0273	-0181 -0180		2770 2769	0003926	0113	14442 14446	718 717	186		014	240	057	788
			STD	0300	-0178	3438	2770 2771	0003905	0133	14451 14467	714 705	182		014	242	057	788
	14	8	OBS STD	T0377 0400	-0173 -0164	3442	2772	0003593	0171	14475	695			015	272	064	784
	14	+8	OBS STD	0476 0500	-0109 -0039		2776 2774	0003544	0206	14516 14551	632 546			-			
	14	8+	oBs	T0574 0600	0040	3467P	2784P 2774	0003614	0242	14596	480 528	218		014	286	068	780
	14	¥8	STD OBS	0616	0000			000201		14589		213		000	293	069	783
								ORIGINATI	2*80	DEPTH M		WAVE	WE	A- CLOL			NODC
CTRY ID.	SHIP	LATIT		NGITUDE H	SOUARE	STATION	YEAR	CRUISE STA	TION	10	PL*S OIL	SERVATION	IS TH	ER COD			STATION
CODE NO.	+-	741	1/10 9.75 O	32282W	555 4		145 196				6 00		X	7 0	3		0024
31808	) GL	1 141	075   0	J2202#1		WATER	WIND BA	RO- AIR TEMP.	VIS.	d 000.   ADE	SPECIAL ERVATIONS						
							OR 1 .					1					
					co	-	70.00		170 7	DEPTHS OBS		1					
					D	T SD 27	504 9	21 -176 -	178 7	17	00.00	/ PO4-1			N NO3-	N 51 04-	
	HR 1/	GR CAST	CARD TYPE	DEPTH (m)	D	-	70.00	21 -176 -	178 7	17	O <sub>2</sub> mi	/l PO4-1			N NO3-		
	HR 1/	GR CAST			0	SD 27	SIGMA-T	21 -176 -	178 7 \$ \( \Delta \) E DYN. \( \Delta \) 10 <sup>3</sup>	17 SOUND VELOCITY					N NO3-		
		GR CAST E OF NO.	CARD TYPE STD OBS	0000	-018 -018	S  1 3405 1 34048	SIGMA-T 2743 2743	SPECIFIC VOLUME ANOMALT-X10?	2 A D DYN. A 103	17 SOUND VELOCITY 14395 14395	5				N NO3-		
			STD OBS STD	0000 0000 0010	-018 -018 -017	S  1 3405 1 34048 6 3405	SIGMA-T 2743 2743 2743	21 -176 -	178 7 \$ \( \Delta \) E DYN. \( \Delta \) 10 <sup>3</sup>	17 SOUND VELOCITY 14395 14395	5				N NO3-		
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STD   0000   -0177   3411   2748   0006185   0000   14398   807   155   024   243   055   800   191   085   0000   -0177   3411   2748   0006185   0006   14398   807   155   024   243   055   800   191   085   0010   -0182   3411   2748   0006185   0006   14397   808   169   015   245   055   798   191   085   0020   -0184   3411   2748   0006182   0012   14398   816   14397   808   169   015   245   055   798   191   085   0020   -0184   3411   2748   0006182   0012   14398   816   14397   808   169   015   245   055   798   191   085   0020   -0184   3416   2748   0006182   0012   14398   816   14397   808   169   015   245   055   798   191   085   0050   -0181   3431   2748   0006182   0012   14497   748   191   085   0052   -0181   34313   2764   00408   0040   14410   735   191   085   0077   -0184   34332   2766   0004408   0040   14410   735   191   085   0077   -0184   34332   2766   0004300   0062   14419   733   191   085   0125   -0184   34342   2766   0004300   0062   14419   733   191   085   0125   -0184   34342   2766   0004300   0062   14419   733   191   085   0125   -0184   34342   2767   0004255   0072   14423   728   1420   728   1420   728   1420   728   1420   728   1420   728   1420   728   1420   728   1420   728   1420   728   1420   728   1420   728   1420   728   1420   728   1420   728   1420   728   1420   728   1420   728   1420   728   1420   728   1420   728   1420   728   1420   728   1420   728   1420   728   1420   728   1420   728   1420   728   1420   728   1420   728   1420   728   1420   728   1420   728   1420   728   1420   728   1420   728   1420   728   1420   728   1420   728   1420   728   1420   728   1420   728   1420   728   1420   728   1420   728   1420   728   1420   728   728   1420   728   728   728   728   728   728   728   728   728   728   728   728   728   728   728   728   728   728   728   728   728   728   728   728   728   728   728   728   728   728   728   728   728   728   728   728   728   728   728   728   728   728   728   728   728   728   7	MECCENI							5 A D	1								T.
STD   0000   -0177   3411   2748   0006145   0000   14398   807   155   024   243   055   800   191   085   0010   -0182   3411   2748   0006158   0006   14397   808   169   015   245   055   798   191   085   0010   -0182   3412   2749   0006132   0012   14398   817   158   013   246   055   798   191   085   0020   -0184   3412   2749   0006132   0012   14399   817   158   013   246   054   799   191   085   0050   -0184   3416   2752   0005740   0018   14400   802   14407   748   191   085   0052   -0181   34313   2764   0004660   0029   14407   748   14408   745   200   014   289   065   791   191   085   0055   -0184   34342   2766   0004408   0040   14410   735   191   085   0057   -0184   3433   2766   0004408   0040   14410   735   191   085   0057   -0184   34332   2766   0004300   0062   14407   731   200   009   287   066   791   191   085   0152   -0184   34342   2766   0004300   0062   14419   731   191   085   0152   -0184   34342   2766   0004300   0062   14419   731   191   085   0159   -0184   34342   2766   0004300   0062   14419   731   191   085   0150   -0184   34342   2767   0004255   0072   14423   728   191   085   0181   -0183   34345   2767   0004255   0072   14423   728   191   085   0181   -0183   34345   2767   0004255   0072   14423   728   191   085   0181   -0183   34345   2767   0004255   0072   14423   728   14425   724   14426   181   191   085   0181   -0183   34345   2767   0004180   0093   14432   724   14446   721   191   085   0388   -0188   34382   2770   0004180   0093   14432   724   14446   721   196   000   298   068   785   191   085   0491   -0080   34465   2773   0003789   0134   14466   712   196   000   298   068   785   191   085   0491   -0080   34465   2773   0003789   0134   14466   712   196   000   298   068   785   191   085   0593   -0011   3458   2779   0003140   0243   14582   534   14663   470   277   000   310   310   379   379   310   3000   3000   34665   2784   0002780   0301   14663   492   370   379   379   379   370   379   379   370   370	TIME	T NO. T		m1 T °C	5 %.	SIGMA-T	ANDMALT-1107	DYN. M								pН	C
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191	17						0006158	0006					024	243	000	800	
STD   0020   -0184   3411   2748   0006132   0012   14398   814   158   013   246   054   799	19						0000130	0000			-		015	245	055	708	
191							0006132	0012			•		017	247	022	190	
STD   0030   -0184   3416   2752   0005740   0018   14400   802     191   085   0052   -0181   34313   2764   0004660   0029   14407   748   14408   745   200   014   289   065   791   191   085   0077   -0184   3433   2766   0004408   0040   14410   735   14410   735   14410   735   14410   735   14410   735   14410   735   14410   735   14410   735   14410   735   14410   735   14410   735   14410   735   14410   735   14410   735   14410   735   14410   735   14410   735   14410   735   14410   735   14410   735   14410   731   14410   731   14410   731   14410   731   14410   731   14410   731   14410   731   14410   731   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730   730	19	08	S 0026	-0185	34121	2749				99 8	17 158		013	246	054	799	
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191	19		-	_									014	289	065	791	
STD   0100   -0184   3434   2766   0004315   0051   14415   733   733   733   733   733   734   734   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735   735	1.0						0004408	0040									
STD   0125   -0184   3434   2766   0004300   0062   14419   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731   731	19						0004315	0051					009	287	066	791	
191																	
STD   0150   -0184   3434   2767   0004255   0072   14423   728   14429   725   205   000   294   067   789	19						0004300	0002					003	203	066	700	
191		_		-			0004255	0072					000	273	066	107	
STD   0200   -0183   3435   2767   0004180   0093   14432   724	19	1 08	S 0181	-0183	34345								000	294	067	789	
191		S	TD 0200	-0183	3435	2767	0004180	0093	144	32 72			000		00,	. 0 /	
STD 0300 -0185 3437 2768 0003999 0134 14448 718  191 08S 0388 -0188 34382 2770 14461 712 196 000 298 068 785  STD 0400 -0173 3439 2770 0003789 0173 14470 699  191 08S 0491 -0080 34465 2773 14530 609 217 000 308 080 782  STD 0500 -0073 3448 2774 0003508 0210 14535 601  191 08S 70593 -0011 34578 2779 14581 535 226 000 311 093 779  STD 0600 -0010 3458 2779 0003104 0243 14582 534  STD 0700 0011 3463 2782 0002859 0273 14609 513  STD 0800 0031 3466 2784 0002780 0301 14636 492  STD 0900 0052 3468 2784 0002794 0329 14662 471  191 08S 70906 0053 34682 2784  STD 1000 0049 3468 2784 0002779 0356 14677 473  STD 1100 0049 3468 2784 0002745 0384 14692 476					3436	2768	0004073	0114	144	40 7	21						
191	19								144	45	204		001	297	068	789	
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191 OBS T1368 0022 3449P 2770P 546 203 003 300 077 781	19						0002008	0436	14/				003	300	077	791	
STD 1400 0019 3468 2786 0002548 0464 14731 529	• /						0002548	0464	147				000	500	011	101	
191 OBS 1466 0017 34679 2786 14742 497 237 001 321 121 780	19												001	321	121	780	
191 OBS T1492 0017 34681 2786 14746 485 226 000 320 122 779	19	1 OB	S T1492	0017	34681	2786			147	46 48	35 226						

REFERENCE					= *4/3	SDEN	TATION T	IM E	WF 4.5		RIGINA			DEPTR	DEFILE	OBSE	WAVE RVATIONS	WEA-	CLOUG			OOC	
CTRY ID.	SHIP LAT	ITUOE	LON	GITUDE 3	SOI	IARE 12	MO DAY	R 1/10	YEAR	CRUISE NO.		ATION	- 1	EOTTO	M S'MPL"		HGT PER SE	2000	TYPE AMT		NU	MBER	
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			STD	0250		0180	3438 3438		769 770		)395 )390		0113 0133		14451	717							
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	117		85 STD	0400		0145	3440		770	000	381	9	0172		14484	673					- 70	700	
	117		85	T0405		0142	34407		771						14486	670	210		000	293	073	788	
			STD	0500		0051	3452		776	000	332	5	0207		14546	579 571	223		000	312	088	779	
	117		85	0510		0043	34529 3461		777	000	299	9	0239		14591	520			000				
	117		STD BS	0600		0014	3461	_	781	000	,.,,	,	0-5.		14595	515	224		000	315	097	780	
	111		STD	0700		0037	3465		783		287	-	0268		14621	491							
			STD	080	0	0054	3469		785	000	0271	2	0296	5	14646	464	222		000	321	106	779	
	117		85	081		0050	3469		785						14658	461 468			000	322	119	786	
	150		85	T 085		0059	3469 3469		785	0.00	0275	1	0324		14665	468							
			STD	100		0058	3470		785		0272	-	035	1	14682	468					1		
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			STD	110		0048	3469	-	2785		0268 0265		037		14694 14708								
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	100	C	STD	200		0004			2786	00	024	25	060		14827						100	701	2
	150	C	85	T206	8	0002			2786						14838				000	322 322	122	782 782	
	150		285	T217	_	-0001	3467		2786						14854				000	324	120	78	
	150		085	228 T233		-0004 -0008		-	2787 2786						14878				000	322	124	78	1
	150 150		)85 )85	1235	_	-0010		-	2788						14882				000	322	126	78	3
	100			,																			

REFERENCE	SHIP	LATITU	26 10	ONGITUDE STOR	SOUARE	TATION T	IME	YEAR		ATOR'S		DEPTH TD	MAX	: 1	WAVE	WEA-	CLOUD			NOOC	
CTRY IQ.	CODE	·	1/10	1/10	1	MO I DAY IH	18.1/10	TEME		10ITAT2		BOTTOM	OF S'MPL		HGT PER SE			-	N 2	UMBER	
318085	GL	7329		30241W			)55	1969	02	,		3109	31		0 2	X2	7 8			0037	
1 310000	1 GL 1	1327	03   0.	30241#	WAT		VIND	BAR	4 10 77	MP. ℃	$\top$	NO.			0 12 1	1 12	1 / 10	1	'	0027	
					COLOR	TRANS. DIR.	SPEED	METI	ER ORY	WET	CODI	OBS.		VATIONS							
					CODE	<del></del>	FORCE				-										
						31	510	89	3 -050	-058		24									$\neg$
	MESSENGR TIME (	CAST NO.	CARD	DEPTH (m)	т *с	s ./	51G	MA-T	SPECIFIC VOL	JME 107	E A D	SOU		02 ml/l	PO <sub>4</sub> =P	TOTAL-P	NO <sub>2</sub> -N	NO3-N	\$1 04-\$1	pН	č
	HR 1/10	1			-	-	+-			_	x 10 <sup>3</sup>	1110	Citi		yg • al/l	VB • al∕l	h8 - 01/1	μg - αl/l	yg - a1/l		C
			6.70	0000	03.53	24.05		. 7	000/7	.		1		700					l		11
	056		STD OBS	0000	-0151 -0151	3405 34045	27 27		000672	) (	0000	144		799 799	137		013	219	052	797	
	0,0	'	STD	0010	-0150	3404	27		000678	13 (	0007	144		804	101		013	217	052	191	
	056	1	OBS	0010	-0150	34037	27	41				144	12	804	145		013	216	051	800	
			STD	0020	-0141	3405	27		000670	3 (	0013			813							
	0 5 6	)	OBS	0025	-0136	34057	27					144		815	147		013	218	052	801	
			STD	0030 0050	-0128 -0112	3407 3414	27 27		000658		)C 20		_	815 805							
	056	1	OBS	0050	-0112	34143	27		000000	, ,	,,,,	144		805	203		010	241	054	800	
			STD	0075	-0154	3428	27		000487	2 (	046			756	-05		010	2 - 1	024	000	
			STD	0100	-0179	3436	27	68	000418	3 (	0058	144	417	726							
	056	)	OBS	0100	-0179	34359	27					144		726	199		025	294	067	790	
			STD	0125 0150	-0179	3437	27		000408		0068			724							
	056		STD OBS	0150	-0180 -0180	3437 34371	27 27		000405	8 (	078	144		722 722	201		000	298	068	700	
	0,70		STD	0200	-0183	3438	27		000398	19 (	0098	144		716	201		000	270	000	789	
	056	,	OBS	T0203	-0183	34375	27					144		716	201		000	293	067	790	
			STD	0250	-0182	3438	27		000392		118	144	441	715							
	054		STD	0300	-0181	3439	27		000385	8 (	138			714							
	056 056		OBS OBS	0300 T0399	-0181 -0164	34385	27 27					144		714	204		000	300	068	789	
	0.70		STD	0400	-0163	3440	27		000371	9 (	176			686 685	201		000	298	070	789	
	056		OBS	T0499	-0109	34470	27		000213	,	, 0	145		622	207		000	304	078	788	
			STD	0500	-0108	3447	27	75	000340	0 (	211	149	19	621			000		0.0		
			STD	0600	-0017	3454	27		000332		245			545							
	05/		STD	0700	0043	3462	27		000319	2 (	277	146		492	24.						
	056		OBS STD	T0797 0800	0070 0070	34687 3469	27 27		000285		308	146		463	204		000	307	104	782	
			STD	0900	0063	3469	27		000280		336			458							
	087		OBS	T0920	0062	34692	27		00000	, ,	, - 30	146		457	222		000	320	110	782	
			STD	1000	0060	3470	27	85	000275	0 0	364			461			000				
	056		OBS	1000	0060	34696	27					146	-	461	230		000	319	111	780	
	0.87		STD	1100	0053	3469	27		000273	9 (	1391			466	221				1	7.0	
	087		OBS STD	T1111 1200	0052 0045	34690 3469	27 27		000268	16	418	146		466 469	221		000	321	116	781	
	056		OBS	T1250	0042	34690	27		000200		, -10	147		470	230		000	321	117	781	
			STD	1300	0039	3469	27		000267	7 (	)445			467			0.00		- 4 -		
	087		OBS	1310	0038	34684	27					147		466	221		000	321	118	781	
			STD	1400 1500	0033 0027	3468	27		000263		472			473							
	087		OBS	1510	0027	3468 34681	27 27		000260	) 2 (	)498	147		480	223		000	323	121	702	
	00,		510	1750	0025	3468	27		000259	9 (	1563	147		481 496	263		000	363	121	783	
	087		OBS	1811	0022	34678	27		300-27			148		499	224		000	320	122	786	
			STD	2000	0005	3467	27		000247	2 (	626			506							
	087		085	T2013	0004	34669	27					148		507	227		000	321	123	782	
	087		OBS	T 2216	-0001 -0008	34663	27		000335	2	. 7 / 7	148		519	226		000	321	120	783	
	087		STD	2500 2524	-0008	34664	27 27		000235	) (	747	149		527 528	224		000	321	119	788	
	087		085	2837	-00140			860					, 1 1	523	219		001	313	118	789	
			STD	3000	-0009	3466	27		000233	8 (	864	149	994	537			301		110	, 0 )	
	087		OBS	T3056	-0017	34658	27					150	000	538	222		000	319	121	788	
	087		OBS	T3093	-0023	34650	27	860						538							

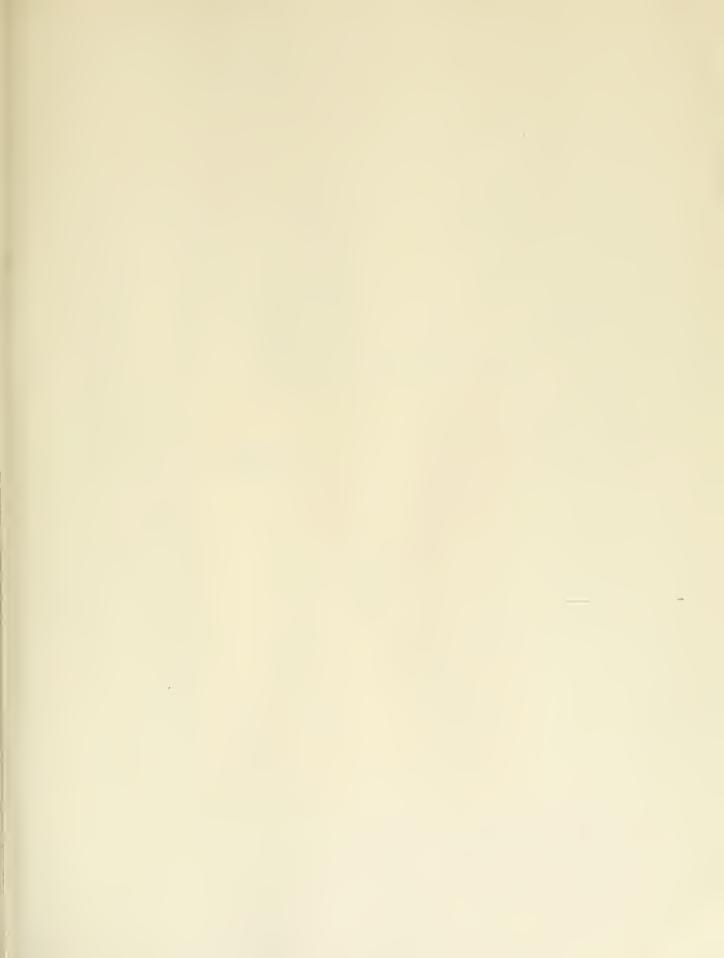
							-				240			-		MAX.			_	Τ				
CTAY ID.	SHIP CDDE	LATITUDE	LDN	GITUDE POOR	.w. 52	ARE :	10	DN TIME	YEA	A.R	CRUISE	STATIC	N	1	10	DEPTH		WAVE ERVATIONS	THER	CLDUD			NDDC STATION	
CODE NO.		1/1	0	1/10 =	10*	1*	MD D	AY HR.1	/10		ND.	NUMB	ER	80	TTDM .	S'MPL'S	DIR.	HGT PER SEA	CDDE	TYPL AM	-		NUMBER	
318085	S GL I	724755	03	0283W	555	20 I		5 02	D	69	A 10 1	23 EMP. 10	-		558	35	00	loixl	l xe	7 8		- 1	0028	
						CDLDR	TRANS.		CEST	BARO METER	DRY	WE			ND. DBS. EPTHS	SPEC								
					}	CDDE	lm1	5	ORCE	(mbs)	_	BUL		+										
					!			05 S	13	846	-036	-04			27									$\neg$
	MESSENGR TIME O	CAJT C	TYPE	DEPTH (m)	T	°C	5	٠/	SIGMA-	-1	SPECIFIC VO	X107	Z △ D DYN. A	۸.	VELDO		D2 ml/l		TOTA L-P µg = ot/l	NO <sub>2</sub> -N ug - o1/I	ND3-N	\$1 Da=!		S
	HR 1/10				-		-			-			x 10 <sup>3</sup>	-				-			9g - 007		-	+
	1	1 1	ST0	0000	-01	161	ا 338	.8	2729	l	00079	66 	0000	, !	144	n 2	829	1					1	11
	003		BS	0000	-01		338		2729		00017	•	0000		144		829	113		013	200	050	799	
	003		BS	8000	-01		338		2729						144		828	121		013	196	050	802	
			STD STD	0010 0020	-01	142	338		2728 2729		00079		0008		144		828 825							
	003	0	B\$	0021	-01	L 4 O	338	98	2729						144	16	825	127		013	202	050	801	
	0.00		STD	0030 0042	-01	116	339 341		2736		00072	34	0023	3	144		809	167		013	247	057	700	
	003		BS STD	0050		120	341		2745 2751		00058	33	003	7	144		788 773	167		013	247	057	799	
			STD	0075	-0		343	3	2765		00044		0049		144	19	738							
	003		BS	0084 0100	-01		343		2768		00041	0.0	0044		144		729	213		022	282	067	789	
			STO STD	0100	-01		343		2769 2769		00041		0060		144		715							
	003	0	BS	0125	-01	179	343	77	2769						144	22	715	201		021	296	069	789	
	003		STD	0150 T0167	-01	180	343		2770 2770		00039	88	0080	)	144		715	201		004	299	070	700	
	003		BS STD	0200	-01		343	-	2770		00038	84	0100	)	144		704	201		004	299	070	789	
	003		BS	0244	~01	177	344	04	2771						144	43	686	214		002	301	074	789	
			STD	0250	-01		344	_	2772		00037		0119		144		686							
	003		STD BS	0300 T0323	-01	L54 L33	344		2773 2773		00035	91	0137	1	144		667 648	205		002	300	079	786	
			STD	0400	-00		345		2778		00032	59	0172	2	145		538					-		
	003		BS	0405 0500	-00	)06 )36	345 346		2778 2781		00030	20	0203	,	145		532 495	214		001	297	095	781	
			STD STD	0600		)63	346		2783		00028		0232		146		469							
	003		BS	T0663		72	346		2784						146		458	220		001	297	111	779	
			STD STD	0700 0800		)69 )62	347		2784		00027		0261		146		457 455							
	003		BS	T0843		)60	346	-	2785		00021	22	0200	,	146		454	220		000	299	116	779	
	035		BS	T0880		)59	347		2785						146		461	214		000	310	115	779	
			STD STD	0900 1000		)55 )43	347 347		2785 2786		00026		0315		146		463 469							
	003		BS	T1079		)42	346		2786		00023	0.1	0-42		146		472	226		000	318	117	779	
			STD	1100		)43	347		2786		00026	17	0368	3	146		473							
	035		BS STD	T1120 1200		)44	346 346		2786 2786		00026	12	0394		146		473	215		000	316	120	778	
			STD	1300		33	346		2786		00025		0420		147		481							
	035		BS	1360		29	346		2786		00000	2.7	04		147		484	215		000	313	127	779	
			STD STD	1400 1500		27	346 346		2786 2787		00025		0445		147	-	488							
	035		BS	1650		14	346	-	2787		0002	0,5	0 . , ,	•	147		503	216		000	314	124	778	
	0.25		STD	1750		11	346		2786		00024	64	0532	2	147		504	0.1 =			212	3.04	770	
	035		BS STD	1864 2000	-	007	346 346		2786 2787		00023	80	0593	3	148		505 512	217		000	312	124	779	
	035	0	ВЅ	2040	00	000	346	77	2787		000-2		0- ,.		148	32	514	216		000	315	122	779	
	035	_	BS	T 2334 2500	-00		346 346		2787		00022	1. 1.	0700	,	148		526 532	216		000	316	124	775	
	035		STO BS	T 2636	-00		346		2787 2787		00022	44	0709	,	149		535	215		000	315	125	779	
	035	0	BS	2834	-00	17	346	70	2787						149	61	538	216		000	311	121	779	
	035		STD BS	3000 3036	-00		346 346		2787 2787		00021	59	0819	9	149		541 542	213		000	314	122	779	
	035		85 85	3238	-00		346		2785						150		548	215		000	315	123	779	
	035	0	BS	3441	-00	23	346	66	2787						150	65	555	214		000	314	122	779	
	035		BS BS	T3475 T3500	-00		346 346		2787 2787						150 150		553 546	213		001	311	123	779 780	
	035	0	05	13300	-00	123	340	00	2/8/						150	10	340	211		000	314	121	180	

			LA TITU	ne l	LONGITUOS	CTR		TATION TO	WE	VEAR	_						- 1							
318085   GL	CODE NO.	CODE					10° 1°		R,1/10	1.671	NO.											2	UMBER	
	318085	GI	7136	15	030361₩					1969		0.24	/a		3848		1			-			0030	
Color   Name   Out   O		.,				1 1			IND	BAR	o			J F				10 12 1	1 1	1 618	1	1	00291	
									SPE EI	METE														
STD   OOD   O.185   3406   Z744   OOD6525   OOT   A3974   B20   A3974							10001							0	24									
STD   0000   -0185   3406   2744   0006527   0000   14394   820   144   008   234   066   794   310   014   085   0000   -0185   3406   2744   0006535   0007   14395   831   147   009   235   065   800   310   0185   3406   2744   0006535   0007   14395   831   147   009   235   065   800   310   0185   3405   2743   0006586   0013   14397   829   144   085   010   -0185   3405   2743   0006586   0013   14397   829   144   085   015   0177   34410   2774   0006047   019   14400   800   014   018   0051   -0117   34410   2772   0003791   003991   014   018   0051   -0117   34410   2774   0003636   048   14418   685   010   0180   010   0180   3443   2774   0003636   048   14418   685   010   0180   012   -0115   3445   2775   0003531   0066   14439   648   014   018   015   -0115   3445   2775   0003531   0066   14439   648   018   018   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   019   0								07	T	. 07		1	_		4		l						_	Ъ
STD		HIME 9	CAST NO.		OEPTH	(m)	1 %	s *4.	SIG	I-AM			ME 01	M.W	. SOL		0 2 ml/l						ρН	S C
014		HR 1/10						-	-					(10-	-			70 100	pg - 0.71	pg - 67/1	pg + ai/1	pg = 017 (	-	4
014		1		ST	000	0	-0185	3406	27	744	000	652	7 0	ممد	14	304	830		-	- 1			-	11
STD   O10		014									000	0,2	, ,	000				144		008	234	066	794	
STD   0020							-0185	3406	27	744	000	6535	5 0	007						000		000	.,,	
014		014		_														147		009	235	065	800	
STD   0030   -0185   3412   2749   0006047   0019   14400   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800   800		014									000	6551	8 0	013				160			227	- / -		
STD		017									000	604	7 0	019				125		009	236	065	800	
STD   O075   -0178   3442   2773   O003731   O039   14414   687				STI			-0177	3440	27	771														
STD   0100		014												_				199		009	285	077	789	
STD   OLD   OLD																								
STD   0125   -0170   3444   2774   0003572   0057   14427   668		014									000	2030	5 01	J 48				208		002	202	070	705	
STD											000	3572	2 00	057				200		002	272	010	100	
STO   0200   -0103   3450   2777   0003311   0083   14472   598				STI	015	0	-0154	3445			000	353	1 0	066	144	439								
014		014																210		000	000	081	786	
STD   0250   -0034   3457   2780   0003082   0099   14513   540		014									000	331	1 00	083				216			_			
STD   0300   0019   3463   2782   0002917   0114   14546   498   218   000   304   099   780		014									000	300	2 01	100				215		000	300	088	783	
014													_											
STD   0400   0066   34690   2784   0002808   0143   14585   464   14585   464   14585   464   14585   465   14585   464   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14585   14		014				6	0024											218		000	3 0 4	099	780	
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014		014										275						218		000	313	106	779	
STD   0600   0065   3470   2785   0002721   0198   14618   458     458     510   0700   0058   3470   2785   0002688   0252   14631   459     510   0800   0051   3470   2785   0002681   0252   14631   459     510   085   70812   0050   34697   2785   0002651   0252   14645   460     6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   6002   600		014									000	2 (5)	<b>o</b> 0.	1 /0				210			212	111	7.00	
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CTRY 10.	SHIP	LATITU	OE LO	NGITUOE SOUTION	SQUARE	TATION TH	VE YEAR	CRUISE	ORIGINA	ATION	$\dashv$	OEPTH TO	CEPTH	OBS	WAVE SERVATIONS	WEA-	COOES			NOOC TATION	
CTRY 10.	COOE		1/10	1/10 ° Z	10° 1°	MO   OAY HE	1/10	NO.	NL	JMBER		BOTTO	S'MPL'	S DIR.	HGT PER SEA	COOE	TYPE AM		N	UMBER	
318085	GL	7038	85 0	33323W	555 03	03 17 0	56 196	9	025		].	4297	34	00	0 x	X7	X   9			0030	
					WA	TER W		(KO-	AIR TEM		vis.	NO.	SPE	CIAL							
					COLOR	TRANS OIR			DRY	WET	CODE	OBS. DEPTHS	OBSERV	ZNOITA							
					-	17		78 -0	56 -	067	4	21	<b></b>								
				Τ.		1	000   0				<u> </u>	-		1	1						-
	MESSENGR	NO.	C ARO TYPE	OEPTH (m)	1 10	s %.	SIGMA-T	ANOA	C AOFAW	;"   õ	∆ 0 yn. m. x 10 <sup>3</sup>	. AEI	ORUI OCITY	0 2 ml/l	PO4-P ug = 01/1	TOTAL-P 29 + 81/1	NO7-N ug = 01/1	NO3-N ug - ol/l	\$1 O4-\$1 99 - 01/\$	рН	ć
	HR 1/10			+	<del>                                     </del>	-	-	+		+											Н
	1	1	STD	0000	-0183	3400	2739	000	6992	. 0	000	14	394	812	1	1			I	' '	'
	068	3	085	0000	-0183	34000	2739					14	394	812	148		009	257	066	٥٥٥	
			STD	0010	-0183	3399	2738	000	7032	. 0	007		395	813							
	068	3	085	0010	-0183	33994	2738	0.00	7022		01/		395	813 813	160		010	252	066	799	
	068	,	STD OB5	0020 0027	-0184 -0185	3399 33994	2738 2738	000	7022	: 0	014		396	813	157		009	258	066	799	
	000	,	STO	0030	-0184	3405	2743	000	6586	0	021		399	796	1 - 1		00,		000	, , ,	
			510	0050	-0177	3437	2769		4133		032	14	410	704							
	068	3	OBS	0053	-0176	34405	2771						412	694	195		005	287	076	790	
			510	0075	-0178	3442	2773		3733		041		415	686							
	068	,	STD OBS	0100 0106	-0180 -0180	3443 34432	2774 2774	000	3637	0	051		418	676 674	203		004	290	078	790	
	000	)	5TD	0125	-0174	3443	2774	000	3621	. 0	060		425	667	203		004	270	0,0	,,,	
			STD	0150	-0167	3443	2773		3621		069		432	657							
	068	3	085	0159	-0164	34433	2773						435	654	194		000	296	079	789	
			510	0200	-0078	3452	2778	000	3264	0	086		483	580	22.			0.01		701	
	068	3	0B5	0212 0250	-0057 -0008	34536 3459	2778 2780	000	3068		102		+495 +525	562 522	214		000	321	090	784	
			5TD 5TD	0300	0038	3465	2782		2881		117		+555	484							
	068	3	0B5	T0317	0050	34659	2782						+564	475	223		000	311	101	780	
			5TD	0400	0070	3469	2784	000	2798	3 0	145		587	461							
	068	3	085	0421	0072	34692	2784				1 70		591	459	219		000	314	107	781	
	068	,	510	0500 T0531	0069 0068	3470 34698	2784 2784	000	2759	<i>?</i> 0	173		603 608	460	223		000	322	112	780	
	000	9	0BS 5TD	0600	0064	3470	2785	0.00	2728	3 0	200		617	461	200		000	222	- 1 -	, 00	
			510	0700	0057	3470	2785		2703		227		+631	461							
			510	0800	0051	3469	2785	000	2681	١ ٥	254		+645	462							
	068	В	085	T0835	0049	34692	2785						+650	462	227		000	326	117	781	
			STD	0900	0045 0038	3469 3469	2785		2665		281		+659 +673	465 470							
	061	9	5TD 0BS	1000 T1042	0036	34684	2786 2785	000	)2615	, ,	301		+679	472	228		000	327	119	781	
	001	,	510	1100	0033	3468	2785	000	2654	+ 0	334		+687	473			000	J			
			STD	1200	0028	3468	2785	000	2615		360		702	476							
			510	1300	0023	3468	2786	000	02575	0	386		+716	480				0.1.0		7.01	
	04	5	0B5	T1321	0022 0018	34679 3468	2786 2786	0.01	2554		4.13		4719 4731	481 487	227		000	319	116	781	
			5TD 5TD	1400 1500	0018	3468	2786		02533		412		+746	494							
	04	5	0B5	T1561	0011	34674	2786						4755	498	227		000	324	117	781	
			510	1750	0003	3467	2786	00	02462	2 0	500	1	4784	503							
	0 4	5	085	1877	-0002	34665	2786				_		+803	508	224		000	311	123	780	
	0.		STD	2000	-0007	3466	2786	000	02403	3 0	560		4822	515 519	228		000	314	124	779	
	04	-	0B5 0B5	2080 2284	-0009 -0013	34662 34671	2786 2787						4868	526			000	314	123	779	
	0.4	-	5TD	2500	-0017	3467	2787	0.0	02210	0 0	676		4903	530			000		-22		
	04	5	0B5	2589	-0019	34668	2787					1	4918	533	225		000	313	121	782	
	04	5	OB5	T2778	-0022	34661	2786				7.		4949	541	225		000	313	123	780	
	0.4	c	510	3000 3097	-0025	3466	2787	00	02131	/ 0	784		4987 5003	553 555			004	309	122	779	
	04		085 085	T3402	-0026 -0028	34661 34659	2787 2787						5056	552			000	311	120	781	
	0.4	-	000	, 5,02	3020	5.057	2101					_		- /-			000			-	

REFERENC	SHIP				# 1478	DEN	TATION TIME			ORIGINATOR		ATOR'S			MAX. DEPTH		WAVE	WEA				NODC	
CTRY IE	CODE	LATITUI		NGITUDE	SOU				YEAR	CRUISE NO.		UMBER		07 MO1108	OF		ERVATIONS	6000	CODE			TATION	
-	·		1/10	1/10	10*	1.	MO DAY	HR.1/10		110.		O MIBER	+		S'MPL'S	DIR.	HGT PER S	EA	TYPE AA	AT			
318085 GL   68368			85   03	32036W	519				1969		026		4	4483	11	00	lo Ix I	X 2	7 8	.		0031	
WAI							WIND	BARG	J-	IR TEN		vis.	NO. 085.	SPEC									
						COLDR	TRANS. DIR.	FORC	/ / Li		RY JLB	BULB	CODE	DEPTHS	OBSERV	2 NOT A							
							10	+		2	23	-039	7	13									
							1.0	1300	104					1			1			1	1		
			CARD	DEPTH (m)	Т	°C	s */	SIG	MA-T	SPECIFIC	VDLUA	, DYN	1. M.	SOU		02 ml/l	PO <sub>4</sub> -P	TOTAL-P	NO2-N	NO3-N	SI 04-SI	pH C	
													X 10 <sup>3</sup>		OCIII I		µg - 01/1	μg = e1/i	Vg − 01/1	μg - α1/I	)/fa + gu	, c	
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			STD	0000		165	3387	27		0008	304	٥0 ا	00	144	-	801							
	062		085	0000 -016			33869		2728 2727					14400		801	159		014	253 256	072	797	
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			STD	0010	_	165	3386	27					16	144		805							
	062		085			165	33857		2727 2727		0000097				404 807 404 808		153		014	252	071	798	
	002			STD 0030		164	3387		27	0008047		7 00	024 14				173		014	272	011	190	
	062		OBS	0044		162	33883			000		. 00			109	795	170		009	250	072	796	
			STD	0050		162	3399		37	000	7088	3 00	39	144		771	0		00,	270	0,2	1 70	
	062		STD	0075	-0	161	3432	27	64	0004	4545	00	54	144	421	682							
			OBS	0087	-0	161	34428	27	73					144	425	647	215		006	295	083	791	
			STD	0100		162	3446		76	000	3457	7 00	64	144	427	616							
			STD	0125		163	3451		80	0003	3057	7 00	72	144		567							
			085	0129		163	34520	27						144		560	223		000	302	091	785	
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			085 STD	T0171 0200		009 014	34593 3463	27 27		000	2010	9 00	0.4	145		509 525	227		000	313	100	782	
			STD	0250	_	046	3468	27		000				145		552							
			OBS	0256			34690		0,5	000.		, 01	00	4 7.	,,,	555	233		000	311	110	780	
			STD	0300	0.0	066	3470	27	85	0002	2682	01	22	145	568	484			000	211	110	, 00	
			OBS	T0339		074	34703	27						145		446	227		000	320	112	779	
			STD	0400		070	3470	27		0002	2715	01	49	145	587	445							
	062		085	T0425		368	34700	27						145	590	444	230		000	316	115	781	
			STD	0500		063	3470	27		0002				146	-	445							
	0.4	_	STD	0600		057	3470		85	0002	2655	02	02	146		447							
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			STD	0700 0800		)51 )46	3469 3469	27 27		0002		-	29	146		449							
	06	2	085	T0852		)43	34689	27		0004	000	02	90	146		453	231		000	210	124	702	
	002		STD	0900		)40	3469	27		0002	2641	02	82	146		458	201		000	318	124	782	
			STD	1000		334	3469	27		0002				146		464							
	06.	2	OBS	T1072		30	34686	27		0000		, 02	,	146		468	234		000	327	125	781	
																			000	251	120	101	

REFERENCE		_ <u>&amp;</u>	'AZ RSDEN	TATION TI		DRIGIN	ATOR'S	DEPTH	MAX.		WAVE	WEA-	Crono			NODC
CTAY ID. CODE	TITUDE L	ONGITUDE	SQUARE	MD DAY H	YEAR		TATION	80TTO	1 01	Can	HGT PER SE	THER	TYPE AM		S	TATION
+ + + + + + + + + + + + + + + + + + + +						1		4675	1					1		
318085 GL   64	5065   0	41247W	520 41 WAT	03 20 1	IMP	A 10 75 A		4572	T		0   5	1 X9	6 5	1	1	0032
			COLOR	TRANS. DIR.	SPEED MET	ER DRY	WET CO	DEPTH	COSERV	CIAL						
			CODE	(m)	FORCE (mb		RULB		·							
				26	505 92	5 -009	-012 8		<u></u>							
MESSENGR CA		DEPTH (m)	7 %	s */	SIGMA-T	SPECIFIC VOLU	DYN.	M. SC	OCITY	D2 m1/1	PO <sub>4</sub> -P	TOTAL-P	NO2-N	NO3~N	SI O4-Si	рН
BR 1/10 T			-				x 10	)3 721			µg = 01/1	νg = e1/1	μg - 01/l	yg - 01/1	yg - at/l	_
			1	l	1	1	- 1	1								ı
120	STD		-0021	3393	2727	000809	1 000		468	774	160		7	107		7.0
138	085 STD	0000	-0021 -0024	33927 3392	2727 2727	000812	1 000		+468 +469	774 774	140		007	197	075	79
138	085	0010	-0024	33921	2727	000012	1 000		469	774	142		005	192	075	79
130	STD		-0072	3407	2741	000678	1 001		450	734	2 12		000	1/2	013	• ,
	STO		-0111	3419	2752	000571			4435	702						
	STD		-0167	3437	2768	000419			415	658						
138	OBS	0050	-0167	34366	2768			14	4415	658	211		009	277	085	77
	STO	0075	-0171	3438	2769	000405	8 004	2 14	+417	663						
156	085	0096	-0174	34428	2773				4420	667	190		007	296	086	77
	STD		-0165	3444	2774	000360	8 005		425	645						
138	085	0100	-0165	34439	2774				+425	645	212		008	289	086	77
	STD		-0108	3446	2774	000362			+456	600						
164	STD		-0064	3449	2775	000356	8 007	_	481 510	562	204		003	212	102	74
156	08S ST0	0197	-0022 -0021	34591 3460	2781 2781	000293	5 008		+511	504	206		003	313	103	76
138	OBS	0200	-0021	34599	2781	000273	5 000		511	501	225		007	325	104	76
150	STD		0024	3457	2785	000264	3 010		541	465	267		007	262	104	, 0
156	085	0298	0055	34692	2785				563	430	224		001	331	118	76
	STD	0300	0055	3469	2785	000267	1 011	3 14	+563	501			-			
138	085	0300		34692						501	242		005	327	115	76
	STD	0400	0052	3470	2786	000260	0 013	9 14	579	465						
156	OBS	0499	0048	34701	2786				593	442	230		001	331	124	76
	STD		0048	3470	2786	000257		_	1594	442						
	STD		0043	3470	2786	000258			608	437						
167	STD	0700 0701	0038	3469 34691	2786	000259	3 021		+622 +622	432	214		010	333	127	7.
156	085 STD		0038	34691	2786 2786	000257	6 024		637	432	216		019	223	124	76
	STO		0028	3469	2786	000254		_	651	433						
	STD		0023	3469	2786	000252			+666	434						
	STO		0018	3468	2786	000250			680	434						
	STD		0013	3468	2786	000247			695	435						
156	085	T1205	0013	34682	2786				696	435	217		001	322	126	77
	STD		0009	3469	2787	000241			710	454						
	STO		0006	3469	2787	000236			+726	471						
10:	STD		0002	3469	2788	000230	7 041		+741	486	226			0.0	1.0	
156	OBS	T1712	-0005	34698	2789	00000			774	509	225		000	320	124	77
	STD		-0006	3470	2788	000218		_	+780	510						
167	\$10		-0014	3469	2788	000217	2 052		819	515	220		006	320	126	77
156	obs	T2222	-0020	34675	2787			14	+854	519	229		006	320	125	77(





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Woods I'n!? On LITEEN WELECTION STATES COAS 1790